

Product datasheet for **MC228963**

Eml1 (NM_001286347) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eml1 (NM_001286347) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Eml1
Synonyms:	1110008N23Rik; A930030P13Rik; AA171013; AI847476; AI853955; ELP79; EMAP; EMAPL; heco
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC228963 representing NM_001286347
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGGTGTGACACCGCATCGCCTCTCTGGAGCAGCGCTCCAGATGCAGGAGGATGACATTCAACTGC
 TCAAGTCAGCGCTGGCCGACGTGGTTCCGAGGCTGAACATCACGAGGAGCAACAGGCTGTGCTCAACAG
 GAAAGGACCTACCAAAGCGAGGCCACTGGGCGAGACCCTGCCATTGAGAACACCGTCAACAATGGCACC
 GTGTTACCAAAGAAACCCAGTGCCTCCCTCCCGCACCCCTCCGGGGCCAGGAAAGAAGTAGTTGTGCCGG
 TAACCAAAAGCATCAATAGGACCAGCTCTCCGAAAGAGTGTCTCCAGGTGGCCGAGGGAGAGCTCTGG
 GGACTCCAAGGAAGCCGAACCGCACGGGCTCAACCAGTAGCTCTCCAGCGGCAAGAAGAAGTGTGAG
 AGCAAACCAAGGAGCCCGCATTAGTCCAGCCCTTCAGTCTCCGAAACCCCAAGGAAGCGCCGGGTGA
 CACACTGCAAAGAAGAAGGATATGTAATAATGTTTCTTCGAGGCCGTCCGGTACCATTGTACATGCCAA
 AGACCAAGTGGATTCTGACAGTTTGAAGCAAAAGCTGAGTTACCAACGAAGCGGCTGAAACTGGAGTGG
 GTCTACGGGTACCGGGGCGAGACTGTCGCAATAACTTGTACTTGTCTCCGACCGGGGAGACCGTGTACT
 TCATTGCGTCTGTGCTGGTGCTTACAATGTGGAGGAGCAGCTGCAGAGGCATTACGCGGGCCACAACGA
 TGACGTCAAGTGCTAGCGGTCCATCCTGACAGGATCACCATAGCAACGGGACAAGTGGCGGGCAGATCT
 AAGGATGGAAAGCAACTGCCACCACATGTGCGCATCTGGGACTCTGTGACACTGAACACTCTGCATGTCA
 TTGGAATAGGCTTTTTGACCGGGCTGTACCTGCATCGCATTCTCAAAGTCTAACGGAGGAGGCCATCT
 CTGTGCTGTGGATGATTCCAACGATCACGTGCTGTCCGTGTGGGATTGGCAGAAAGAAGAGAGACTGGCC
 GACGTGAAGTGTTCGAACGAAGCGGTATTTGCGCGGACTTCCACCCACAGACACCAATATCATAGTCA
 CCTGCGGGAAGTCACATCTCTACTTTTGGACCCTAGAAGGAAATCCCTTAACAAGAAGCAAGGGTTGTT
 TGAGAAACAAGAGAAGCCAAAGTTTGTCTCTGCGTGACGTTTTCTGAAAATGGCGACACCATTAAGTGA
 GATTCAAGCGGCAACATCTTGGTGTGGGGAAAGGTACAATCGGATAAGCTATGCAGTTCAAGGGGCC
 ACGAGGGCGGCATTTTTGCACTTTGTATGCTGAGAGACGGGACGCTGGTGTCCGGAGGAGGAAGGACCG
 GCGACTCATTTCTGGAACGGAACTATCAAAAACCTTCACAAAGCAGAGATTCTGAGCAGTTTGGCCCA
 ATACGGACAGTAGCCGAAGGGAAGGGCAACGTCATCTTGATAGGCACTACTAGAACTTTGTCTGCAAG
 GCACCTTGTGAGGGGACTTCACACCCATCACTCAGGGCCACACCGATGAGCTCTGGGGGCTAGCCATCCA
 TGCTTCAAGCCTCAGTTCTGACTTGTGGACATGACAAACATGCCACTCTCTGGGACGCTGTGCGTCA
 CGGCCAGTCTGGGACAAAATCATAGAGGATCCAGCTCAGTCTCTGGTTTTCATCCTTCCGGGTCTGTGG
 TTGCAAGTGGGGCACTGACTGGGAGGTGGTTTGTGTTTGACACGGAGACAAGGACTTGGTCACCGTCCA
 CACGGATGGGAATGAGCAGCTGTCCGTGATGCGGTATTCTCCAGATGGGAACCTTCTAGCAATCGCTCC
 CATGACAACTGCATCTACATATATGGAGTTACCGACAATGGAAGGAAGTACACACGAGTTGGCAAGTGCT
 CCGGCCATTCCAGCTTCAACCCACTTGGAGTGGTCCGTGAACCTACAATTCCTGGTGTCAAATCCCGG
 GGACTACGAGATCCTCTACTGGTTCCGTCTGCCTGTAAGCAAGTCGTGAGTGTGGAAACCACAAGGGAC
 ATCGAGTGGGCCACCTATACCTGCACCTTGGGATTCCACGTCTTTGGAGTGTGGCCGAGGGCTCCGATG
 GGACAGACATCAACGCCGTCTGCCGGGCTCACGAGAGAAAGCTCTTGTGCACAGGCGATGACTTCGGCAA
 AGTGCACCTCTTCTCATACCCGTGCTCACAGTTCGGGGCTCCAAGCCACATCTACAGTGGACACAGCAGC
 CACGTACCAACGTGGACTTCTCTGTGAAGACAGCCACCTTATCTCCACGGGTGGGAAAGACACAAGCA
 TCATGCAGTGGCGAGTCATT**AG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI

ACCN: NM_001286347

Insert Size: 2403 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:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001286347.1, NP_001273276.1</u>
RefSeq Size:	3857 bp
RefSeq ORF:	2403 bp
Locus ID:	68519
UniProt ID:	<u>Q05BC3</u>
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 (4) differs in the 5' UTR, lacks a portion of the 5' coding region, initiates translation at a downstream start codon, and contains an additional internal in-frame exon, compared to variant 1. The resulting isoform (4) is shorter; it has a shorter N-terminus and an additional internal segment, compared to isoform 1.