

Product datasheet for **MR231174**

Eml1 (NM_001286347) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eml1 (NM_001286347) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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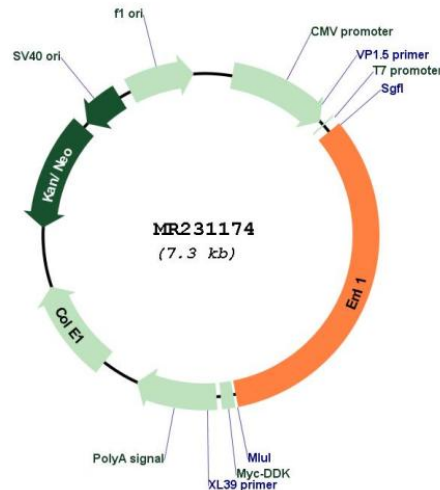
ORF Nucleotide Sequence:

>MR231174 representing NM_001286347
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGGTGTAGACCGCATCGCCTCTCTGGAGCAGCGCTCCAGATGCAGGAGGATGACATTCAACTGC
 TCAAGTCAGCGCTGGCCGACGTGGTTCGGAGGCTGAACATCACGGAGGAGCAACAGGCTGTGCTCAACAG
 GAAAGGACCTACCAAAGCGAGGCCACTGGGGCAGACCCTGCCATTGAGAACCACCGTCAACAATGGCACC
 GTGTTACCAAAGAAACCCAGTGCCTCCCTCCCGCACCCTCCGGGGCCAGGAAAGAAGTAGTTGTGCCGG
 TAACCAAAGCATCAATAGGACCAGCTCTCCGAAAGAGTGTCTCCAGGTGGCCGGAGGGAGAGCTCTGG
 GGACTCCAAGGAAGCCGGAACCGCACGGGCTCAACCAGTAGCTCCTCCAGCGGCAAGAAGAAGCAGTGAG
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 AGACCAAGTGGATTTCGTACAGTTTGAAGCAAAAGCTGAGTTACCAACGAAGCGGCTGAAACTGGAGTGG
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 TTGCAAGTGGGGACTGACTGGGAGGTGGTTTGTGTTGACACGGAGACAAGGACTTGGTACCGTCCA
 CACGGATGGGAATGAGCAGCTGTCCGTGATGCGGTATTCTCCAGATGGGAACCTTCTAGCAATCGGTCC
 CATGACAACTGCATCTACATATATGGAGTTACCGACAATGGAAGGAAGTACACACGAGTTGGCAAGTGT
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 GGACTACGAGATCCTCTACTGGGTTCCGTCTGCCTGTAAGCAAGTCGTGAGTGTGGAAACCAAGGGAC
 ATCGAGTGGGCCACCTATACCTGCACCTTGGGATTCCACGTCTTTGGAGTGTGGCCGGAGGGCTCCGATG
 GGACAGACATCAACGCCGTCTGCCGGCTCACGAGAGAAAGCTCTTGTGCACAGGCGATGACTTCGGCAA
 AGTGCACCTCTTCTCATACCCGTGCTCACAGTTCGGGGCTCCAAGCCACATCTACAGTGGACACAGCAGC
 CAGTCAACCAACGTGGACTTCTCTGTGAAGACAGCCACCTTATCTCCACGGGTGGGAAAGACACAAGCA
 TCATGCAGTGGCGAGTCATT

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Plasmid Map:


ACCN: NM_001286347

ORF Size: 2400 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_001286347.1](#), [NP_001273276.1](#)

RefSeq Size: 3857 bp

RefSeq ORF: 2403 bp

Locus ID: 68519

UniProt ID: [Q05BC3](#)

Cytogenetics: 12 59.46 cM

MW: 88.8 kDa

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]