

Product datasheet for **RN207276**

Eml1 (NM_001025741) Rat Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Eml1 (NM_001025741) Rat Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Eml1 |
| Synonyms: | MGC114510 |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |



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Fully Sequenced ORF: >RN207276 representing NM_001025741
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGATATCAGACCGCATCGCCTCTCTGGAGCAGCGGGTCCAGATGCAGGAGGATGACATTCAGCTGC
 TCAAGTCGGCGCTGGCCGACGTGGTTCGGAGGCTGAACATCACAGAGGAGCAACAGGCTGTCTTAACAG
 GAAAGGACCTACCAAAGCGAGACCACTGGGGCAGACCCTGCCACTTAGAACACCCTCAACAATGGCACC
 GTGTTACCAAAGAAACCCAGTGTTCCTCCCCTCGCCCTCGGGGTCCAGGAAAGAAATGGTTGTGCCGG
 TAACCAAAGCATCAACAGGACCAGCTCTCCGAACGAGTGTCTCCAGGCGGCCGAGGGAGAGCTCCGG
 GGACTCCAAAGGAAGCCGGAACCGCACCGGCTCTACCAGCAGCTCGTCCAGCGCAAGAAGAAGCAGTGAG
 AGCAAACCAAGGAGCCTACATTCAGTCCAGAAGAGGGGTATGAAAAATGTTTCTTCGAGGCCGCCCG
 TCACCATGTACATGCCAAAGACCAAGTGGATTCTACAGTTTGAAGCGAAAGCTGAATTGCCAACGAA
 ACGGCTGAAGCTGGAGTGGGTCTACGGGTACCGGGGCGAGACTGTCGTAATAACCTGTACTGCTCCCG
 ACCGGGGAGACGGTGTACTTCATAGCGTCGGTGTGGTGTCTTACAACGTGGAGGAACAGCTGCAGAGGC
 ATTACGCGGGCCACAACGACGACGTCAAGTGCCTAGCGGTCCACCCTGACAGAATCACCATAGCAACAGG
 ACAAGTGGCGGGCACATCTAAAGATGGAAGCAACTGCCGCCACAGTGCATCTCTGGGACTCTGTGACC
 CTGAACACTCTGCATGTCATCGGAATAGGCTTTTTGACCGGGCTGTACCTGCATCGCATTCTCAAAAT
 CCAACGGAGGAAGCCACCTCTGTGCTGTGGATGACTCCAATGACCATGTGTTGTCTGTGTGGGACTGGCA
 GAGAGAGGAGAGGCTGGCTGACGTGAAGTGTTCGAACGAAGCGGTATTTGCTGCGGACTTCCACCCACA
 GACACCAATATCATAGTACCTGCGGGAAGTACATCTACTTTTGGACCCTAGAAGGAAATCCCTTA
 ACAAGAAGCAAGGGTTGTTTGAGAAACAAGAGAAGCCAAAGTTTGTCTTTGCGTGACGTTTTCTGAAAA
 TGGCGACACCATTACTGGAGATTCAAGTGGCAACATCTTGGTGTGGGGAAAAGGTACAAATCGAATAAGC
 TATGCAGTTCAAGGGGCCACGAGGGCGGCATTTTTGCACCTTTGTATGCTGAGAGATGGCAGCTGGTGT
 CCGGAGGAGGGAAGGACCGGCGCCTCATTTCTGGAACGGAAACTATCAAAAACCTCACAAAGCAGAGAT
 TCCTGAGCAGTTTGGCCCAATACGGACAGTGGCTGAGGGGAAGGGCAATGTCATCTTGATTGGCACTACT
 AGAAACTTTGCTCCTGCAAGGCACCTTGACCGGGGACTTACACCCATCACTCAGGGTCACTGATGAGC
 TCTGGGGCTGGCCATCCATGCCTCCAAACCTCAGTCTTGACCTGTGGACATGACAAGCAGCCACTCT
 CTGGGACCGCTTGGTCAACCGCCAGTCTGGGACAAAATCATAGAGGATCCAGCTCAGTCTCTGGTTTT
 CATCTTCAGGGTCTGTGTTGCAGTCGGGACCCTGACTGGGAGTGGTTTGTGTTTGCACGGAAACGA
 AGGACCTGGTCACCGTCCACCGATGGGAATGAGCAGCTCTCCGTGATGCGGTATTCTCCAGATGGGAA
 CTTCTGGCAATCGGCTCCCATGACAACCTGCATCTACATATACGGAGTCAGCGACAATGGAAGGAAGTAC
 ACGCGAGTTGGCAAGTGTCCGGCCATTCCAGCTTCATCACCCACTTGGACTGGTCCGTGAACCTCAAAAT
 TCCTGGTGTCAAATTCGGGGACTACGAGATCCTCTACTGGGTCCCATCTGCCTGTAAGCAAGTCGTGAG
 TGTGGAACACACGGGACATCGAGTGGGCCACCTATACCTGCACCTTGGGATCCATGTCTTTGGAGTG
 TGGCCTGAGGGCTCAGATGGAACAGACATCAATGCTGTCTGCCGGGCCACGAGAAAAAGCTCCTGTCCA
 CAGGCGATGACTTCGGCAAAGTGCACCTTCTCATACCCATGCTCACAGTTCAGGGCTCCGAGCCACG
 CTACAGTGGACACAGCAGCCACGTCACCAACGTAGACTTCTCTGTGAAGACAGCCACCTTATCTCCAGC
 GGTGGGAAAGACACAAGCATCATGCAGTGGCGGGTCATT**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001025741
Insert Size: 2352 bp

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| 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). |
| 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: | <ol style="list-style-type: none">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_001025741.1</u> , <u>NP_001020912.1</u> |
| RefSeq Size: | 2618 bp |
| RefSeq ORF: | 2352 bp |
| Locus ID: | 362783 |
| UniProt ID: | <u>Q4V8C3</u> |
| Cytogenetics: | 6q32 |
| 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] |