

## Product datasheet for MR216112

### Eml4 (NM\_001114361) Mouse Tagged ORF Clone

#### Product data:

|                           |                                                                                |
|---------------------------|--------------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                            |
| Product Name:             | Eml4 (NM_001114361) Mouse Tagged ORF Clone                                     |
| Tag:                      | Myc-DDK                                                                        |
| Symbol:                   | Eml4                                                                           |
| Synonyms:                 | 4930443C24Rik; AI644019                                                        |
| Mammalian Cell Selection: | Neomycin                                                                       |
| Vector:                   | pCMV6-Entry (PS100001)                                                         |
| E. coli Selection:        | Kanamycin (25 ug/mL)                                                           |
| ORF Nucleotide Sequence:  | >MR216112 representing NM_001114361<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGGACGGTTTCGCCGGCAGCCTCGATGATAGTATTTCTGCTGCAAGTACCTCTGACGTTCAAGACCGCC  
 TCTCAGCTCTTGAGTCACGAGTTCAACAACAAGAAGATGAAATCACTGTGCTAAAGGCAGCATTGGCTGA  
 TGTTTTGAGGCGTCTTGCAATCTCTGAAGATCATGTAGCCTCAGTGAAAAAGTCCATGCCAAGTAAAGGC  
 CAACCAAGCCTTCGAGAAGCTATTTCTATGTCTGTATAACCAATGGAAGTGGTATAAGCAGAAAAACAGA  
 ATCATACCAGCTCTGTATCAATAGCAAGAAAAGAACTCTTTCTCAGCTGCTAAAAGTGGTACAGAAAA  
 AAAGAAAAGAAAGCCACAAGGACAGAGAGAAAAAAGAGGATTCTATTCTAATGATCAGAGCCCAAA  
 ATTCGAGCGTCACCTTCTCCCCAGCCCTCTTCACAGCCTCTCCAAATAAACAGACAACTCCAGAGAGCA  
 AGAGTTCTGCTCCCATCAAAAGCATAAAACGTCCACCAACAGCTGAAAAGTCACTAACTCATGGAAAA  
 TTCAGATGATAGTCGTAATAAATTAATGAAAACGGTTTCAACATCAAACTAATATCAAAGGTTATAAAA  
 AATGCAGACAAACATAAAGATGTCATCGTCAATCAAGCAAAATGTCAACCCGGGAAAAAAGCAGCAAG  
 AAGGAGAATATATTAATGTTTATGCGAGGTCGGCAATTACAATGTTTCATTCTCGGATGTTGACAA  
 CTATGATGACATCAGAACAGAACTGCCTCCAGAGAAGCTCAAACTGGAGTGGGTATACGGTTATCGAGGA  
 AAGGACTGTAGAGCGAATGTATACCTGCTTCCACAGGGGAGATAGTTTATTTATCGCCTCAGTGGTAG  
 TCCTGTTTAATTATGAGGAGAGGACTCAGCGACACTACCTGGGTACATACAGACTGTGTGAGATGCCTTGC  
 TGTACATCCTGACAAGATTAGAATTGCAACTGGACAGATAGCCGGAGTAGACAAAGATGGAAGGCCTCTG  
 CAACCCCATGTCAGGGTGTGGGATTAGTAAGTCTTACCACACTGCATGTTATTGGACTTGAACCTTTTG  
 AGCGTGGAGTAGGATGCCTGGATTTTCAAAGCAGATTAGGTGTTTATTTATGCGTTATTGATGACTC  
 CAATGAGCACATGCTTACTGTATGGGACTGGCAGAAAAATCAAAATCGCAGAAATAAGACAAACAAAC  
 GAAGTTGTTTGGCTGTAGAATCCACCAACAGATGCAATACAATAAACATGTGGTAAATCTCATA  
 TTTTTTCTGGACCTGGAGTGGCAACTCACTAACAGAAAACAGGGAATTTTGGGAAATATGAAAAACC  
 AAAATTCGTTAGTGTGGCATTCTTGGGAATGGAGATGTTCTCACTGGAGACTCGGGTGGAGTCATG


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CTGATCTGGAGCAAAACGATGGTAGAGCCCCGCCCGGAAAGGACCTAAAGGTGTGTATCAGATCAACA  
 GACAAATCAAAGCTCATGATGGCAGTGTGTTTACACTTTGTGATGAGAAATGGGATGCTATTAAGTGG  
 AGGCGGAAAAGACAGAAAAATAATTTTGTGGGATCATGATCTGAACCTTGAAAGAGAAATAGAGGTTCT  
 GATCAGTATGGCACCATTAGAGCAGTTGCAGAGGGAAGGCAGAACAGTTCTTAGTAGGCACATCACGAA  
 ACTTTATTTTACGGGGAACGTTTAAATGATGGCTTCCAAATAGAAGTCCAGGGTCATACAGATGAACCTG  
 GGGCCTTGCAACACATCCCTTCAAAGATTTGCTCTTGACGTGTGCTCAGGACAGGCAGGTGTGCATGTG  
 AACTCAGTGGAGCACAGGCTGGAGTGGACAGGCTTGTGGACGAACAGGACACTGTGCAGACTTTCATC  
 CAAGCGGTACAGTGGTAGCCATTGGAACGCACTCAGGCAGGTGGTTTGTCTGGATGCAGAAACAAGAGA  
 TCTGGTGTCAATCCACACGGATGGCAATGAGCAGCTGTCTGTGATGCGCTACTCAGTAGATGGCACTCTT  
 CTGGCTGTGGGCTCTCATGACAACTTTATTTACCTCTACACAGTCTTAGAAAACGGAAGAAAATACAGCA  
 GATATGGAAGTGCAGTGGACATTCTAGCTACATCACACACCTTGACTGGTCCCCAGACAATAAGCATAT  
 AATGTCTAACTCGGGTGAACGAGATACTGTACTGGGACATTGAAAATGGCTGCAAACTAATCAGGAAC  
 CGATCAGATTGCAAGGACATCGATTGGACAACATATACCTGTGTGCTAGGCTTCCAAGTCTTTGGGGTGT  
 GGCCGGAAGGGTCCGATGGAACAGACATCAACGCACTGGTTCGATCCACAACAGAAGAGTGATCGCAGT  
 GGCCGATGATTTCTGCAAAGTTCATCTCTTTCAGTACCCTGCTCAAAGCCAAGGCTCCAGTCACAAG  
 TACAGTGGCCACAGCAGCCATGTGACCAACGTCAGTTTTACTCATAATGACAGTCACCTAATTTCAACTG  
 GTGGGAAGGATATGAGCATCATTAGTGAAGCTTGTGGAAAAGTTACCTGTGCCTCAAAACGAGGTGAT  
 AACAGACGCCAGTGTGACCAAAACCCCTGCCTCTTCTCTGAAACTGCCAGGCCGTCTAACTCTCTCTCA  
 CTGCCTCTTCTCTACCGTTAACTGGGACGGCTGAAGAGGAAAGCAGGATGGGCAGCTCCCCACACTAG  
 TGGAGAACAGCCTGGAGCAGATCGCAGAGCCAGCGAGGAGCAGAGCGAGTGGGGTAGCGAAGACCTTGG  
 TGTGGTGATTGATGAAGAGCCTGCTAGTGAGTTAAGTGAGACACAGGGAGCAACTGAGCTGCCTGAGGAG  
 GAGCGAGGCATAACACCCCTGTGC

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR216112 representing NM\_001114361  
 Red=Cloning site Green=Tags(s)

MDFGAGSLDDISAASTSDVQDRLSALESRVQQQEDEITVLKAALADVLRLRAISEDHVASVKKSMPSKG  
 QPSLREATSMSCITNGSGISRKQNHSTSSVSIARKETLSSAAKSGTEKKKEKPQGQREKKEDSHSNDQSPQ  
 IRASPSQPSSQPLQINRQTPEKSSAPIKSIKRPPTAEKSHNSWENSDDSRNKLMTVSTSKLISKVIK  
 NADKHKDVIYNQAKMSTREKNSQEYIKMFMGRPITMFIIPSDVDNYDDIRTELPPEKLKLEWVYGYRG  
 KDCRANVYLLPTGEIVFYIASVVVLFNYEERTQRHYLGHTDCVRCLAVHPDKIRIATGQIAGVDKDGRL  
 QPHVRVWDSVSLTTLHVIGLGTFERGVGCLDFSKADSGVHLCVIDDSNEHMLTVWDWQKKSKIAEIKTTN  
 EVVLAVEFHPTDANTIITCGKSHIFFWTWSGNSLTRKQIGFGYKPKFVQCLAFNGNDVLTGDSGGVM  
 LIWSKTMVEPPPGKGPQVYQINRQIKAHGDSVFTLCQMRNGMLLTGGGKDRKIILWDHDLNLEREIEVP  
 DQYGTIRAVAEGRAEQFLVGTSRNFILRGTFNDGFQIEVQGHTEDELWGLATHPFKDLLLTCAQDRQVCMW  
 NSVEHRLWTRLVDEPGHCADFHPSGTVVAIGTHSGRWFVLD AETRDLSIHTDGNEQLSVMRYSVDGTL  
 LAVGSHDNFIYLYTVLENGRKYSRYGKCTGHSSYITHLDWSPDNKHIMSNSGDYEILYWDIENGCKLIRN  
 RSDCKDIDWTTYTCVLGFQVFGVWPEGSDGTDINALVRSHNRRVIAVADDFCKVHLFYQPCSKAKAPSHK  
 YSAHSSHVTNVSFTHNDSHLISTGGKDSIIQWKLVEKLPVPQNEVITDASVTKTPASSSETARPSNSPP  
 LPPSLPLTGTAEEESRMGSSPTLVENSLEQIAEPSEEQSEWGSDELGVVIDEEPASELSETQGATELPEE  
 ERGITPLC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9097\\_a02.zip](https://cdn.origene.com/chromatograms/mm9097_a02.zip)

**Restriction Sites:**

Sgfl-MluI

## Cloning Scheme:



ACCN: NM\_001114361

ORF Size: 2964 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.

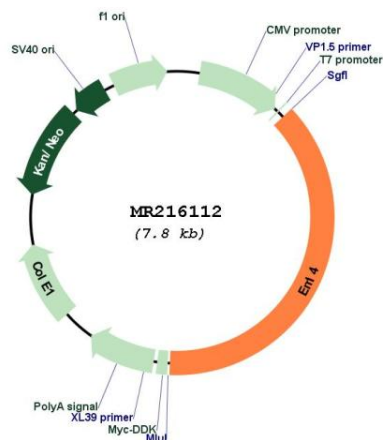
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM\\_001114361.1](#), [NP\\_001107833.1](#)

RefSeq Size: 5445 bp

|               |                                                                                                                                                |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| RefSeq ORF:   | 2967 bp                                                                                                                                        |
| Locus ID:     | 78798                                                                                                                                          |
| Cytogenetics: | 17 E4                                                                                                                                          |
| MW:           | 110 kDa                                                                                                                                        |
| Gene Summary: | May modify the assembly dynamics of microtubules, such that microtubules are slightly longer, but more dynamic.[UniProtKB/Swiss-Prot Function] |

## Product images:



Circular map for MR216112