

## Product datasheet for **MR218604**

### **Eml1 (NM\_001043336) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Eml1 (NM_001043336) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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**ORF Nucleotide Sequence:**

>MR218604 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGGTGTAGACCGCATCGCCTCTCTGGAGCAGCGCTCCAGATGCAGGAGGATGACATTCAACTGC  
 TCAAGTCAGCGCTGGCCGACGTGGTTCGGAGGCTGAACATCACGGAGGAGCAACAGGCTGTGCTCAACAG  
 GAAAGGACCTACCAAAGCGAGGCCACTGGGGCAGACCCTGCCATTGAGAACCACCGTCAACAATGGCACC  
 GTGTTACCAAAGAAACCCAGTGCCTCCCTCCCGCACCCTCCGGGGCCAGGAAAGAAGTAGTTGTGCCGG  
 TAACAAAAGCATCAATAGGACCAGCTCTCCGAAAGAGTGTCTCCAGGTGGCCGGAGGGAGAGCTCTGG  
 GGACTCCAAAGGAAGCCGGAACCGCACGGGCTCAACCAGTAGCTCCTCCAGCGGCAAGAAGAAGCAGTGAG  
 AGCAAACCAAGGAGCCCGCATTAGTCCAGAAGAAGGATATGAAAAATGTTTCTTCGAGGCCGTCGGG  
 TCACCATGTACATGCCAAAGACCAAGTGGATTCTGACAGTTTGAAGCAAAAGCTGAGTTACCAACGAA  
 GCGGCTGAAACTGGAGTGGGTCTACGGGTACCGGGGCGAGACTGTCGCAATAACTTGTACTTGTCCCG  
 ACCGGGGAGACCGTGTACTTCATTGCGTCTGTCGTGGTGTTTACAATGTGGAGGAGCAGCTGCAGAGGC  
 ATTACGCGGGCCACAACGATGACGTCAAGTGCCTAGCGGTCCATCCTGACAGGATCACCATAGCAACGGG  
 ACAAGTGGCGGGCACATCTAAGGATGGAAGCAACTGCCACCACATGTGCGCATCTGGGACTCTGTGACA  
 CTGAACACTCTGCATGTCATTGGAATAGGCTTTTTGACCGGGCTGTACCTGCATCGCATTCTCAAAGT  
 CTAACGGAGGAGGCCATCTCTGTCTGTGGATGATCCAAACGATCACGTGCTGTCCGTGTGGGATTGGCA  
 GAAAGAAGAGAGACTGGCCGACGTGAAGTGTTCGAACGAAGCGGTATTTGCGGGGACTTCCACCCACA  
 GACACCAATATCATAGTACCTGCGGGAAGTACATCTACTTTTGGACCCTAGAAGGAAATTCCTTA  
 ACAAGAAGCAAGGGTTGTTTGAAACAAGAGAAGCCAAAGTTTGTCTCTGCGTGACGTTTTCTGAAAA  
 TGGCGACACCACTTACTGGAGATTCAAGCGCAACATCTTGGTGTGGGGAAAGGTACAAATCGGATAAGC  
 TATGCAGTTCAAGGGGCCACGAGGGCGGCATTTTTGCATTTGTATGCTGAGAGACGGGACGCTGGTGT  
 CCGGAGGAGGGAAGGACCGCGACTCATTTCTGGAACGGAAACTATCAAAAACCTCACAAAGCAGAGAT  
 TCCTGAGCAGTTTGGCCCAATACGGACAGTAGCCGAAGGGAAGGGCAACGTCATCTTGATAGGCACTACT  
 AGAAACTTTGCTCCTGCAAGGCACCTTGTACGGGACTTCCACCCATCACTCAGGGCCACACCGATGAGC  
 TCTGGGGCTAGCCATCCATGCCTCAAGCCTCAGTTCCTGACTTGTGGACATGACAAACATGCCACTCT  
 CTGGGACGCTGTCGGTACCGGCCAGTCTGGGACAAAATCATAGAGGATCCAGCTCAGTCTCTGGTTTT  
 CATCCTTCGGGTCTGTGTTGCAGTGGGACACTGACTGGGAGGTGGTTTGTGTTTGACACGGAGACAA  
 AGGACTTGGTCACCGTCCACACGGATGGGAATGAGCAGCTGTCCGTGATGCGGTATTCTCCAGATGGGAA  
 CTTCTTAGCAATCGGCTCCCATGACAACGTCATCTACATATATGGAGTTACCGACAATGGAAGGAAGTAC  
 ACACGAGTTGGCAAGTGCTCCTGCCATTCCAGCTTCATCACCCACTTGGACTGGTCCGTGAACTCACAAT  
 TCCTGGTGTCAAATTCGGGGACTACGAGATCCTCTACTGGGTTCCGTCTGCCTGTAAGCAAGTCGTGAG  
 TGTGAAACCACAAGGGACATCGAGTGGGCCACCTAACCTGCACCTTGGGATCCACGTCCTTGGAGTG  
 TGGCCGGAGGGCTCCGATGGGACAGACATCAACGCCGTCTGCCGGCTCACGAGAGAAAGCTCTTGTGCA  
 CAGGCGATGACTTCGGCAAAGTGCACCTTCTCATACCCGTGCTCACAGTTCGGGGCTCCAAGCCACAT  
 CTACAGTGGACACAGCAGCCACGTCACCAACGTGGACTTCTCTGTGAAGACAGCCACCTTATCTCCAGC  
 GGTGGGAAAGACACAAGCATCATGCAGTGGCGAGTCATT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR218604 protein sequence  
Red=Cloning site Green=Tags(s)

MEVSDRIASLEQRVQMEDDIQLLKALADVRRRLNITEEQAVLNRKGPTKARPLGQTLPLRTTVNNGT  
VLPKPSASLPAPSGARKEVVVPVTKSINRTSSSERVSPGRRRESSGDSKGSRNRTGSTSSSSSGKKNSE  
SKPKPEAFSPEEGYVKMFLRGRPVMTMYPKDQVDSYSLEAKAELPTKRLKLEWVYGYRGRDCRNLYLLP  
TGETVYFIASVVVLYNVEEQLQRHYAGHNDVVKLAVHPDRITIAATGQVAGTSKDGKQLPPHVRIWDSVT  
LNTLHVIGIGFFDRAVTCIAFSKSNGGGHLCAVDDSNHVL SVWDWQKEERLADV KCSNEAVFAADFHPT  
DTNIIVTCGKSHLYFWTLEGNL NKKQGLFEKQE KPFVLCVTFSENGDTITGDSSGNILVWGKGTNRIS  
YAVQGAHEGGIFALCMLRDGTLVSGGKDRRLISWNGNYQLHKAEIPEQFGPIRTVAEGKGNVILIGTT  
RNFVLQGTLSGDFTPITQGHTDELWGLAIHASKPQFLTCGHDKHATLWDAVGHRPVWDKIIEDPAQSSGF  
HPSGSVAVGTLTGRWFVFDTETKDLVTVHTDGNEQLSVMRYSPDGNFLAIGSHDNCIYIYGVTDNGRKY  
TRVGKCSCHSSFITHLDWSVNSQFLVSNSGDYEILYWVPSACKQVVSVETTRDIEWATYTCTLGFHVFGV  
WPEGSDGTDINAVCRAHERKLLCTGDDFGKVHLFSYPCSQFRAPSHIYSGHSSHVTNVDFLCEDSLHIST  
GGKDTSIMQWRVI

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-Mlul



**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\\_001043336.1](#), [NM\\_001043336.2](#), [NP\\_001036801.1](#)

**RefSeq Size:** 3806 bp

**RefSeq ORF:** 2352 bp

**Locus ID:** 68519

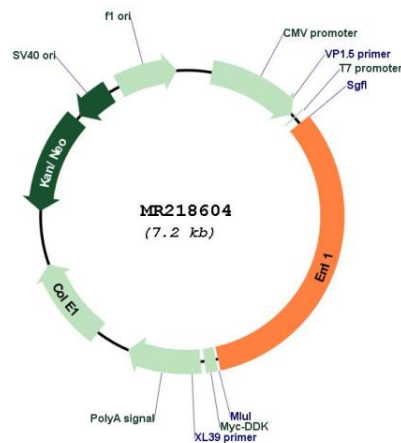
**UniProt ID:** [Q05BC3](#)

**Cytogenetics:** 12 59.46 cM

**MW:** 86.5 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]

### Product images:



Circular map for MR218604