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Product datasheet for MR217188

Eml1 (NM_001043335) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eml1 (NM_001043335) 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:

>MR217188 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGGACGGCTTCTCCAGCTATAGCAGCCTGTACGACACGTCCTCGCTGCTGCAGTTCTGCAACGATG
ACAGCGCGTCTGCTGCCAGCAGCATGGAGGTGTCAGACCGCATCGCCTCTCTGGAGCAGCGCGTCCAGAT
GCAGGAGGATGACATTCAACTGCTCAAGTCAGCGCTGGCCGACGTGGTTCGGAGGCTGAACATCACGGAG
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GAACCACCGTCAACAATGGCACCGTGTTACCAAAGAAACCCAGTGCCTCCCTCCCGGCACCCTCCGGGGC
CAGGAAAGAAGTAGTTGTGCCGGTAACCAAAAGCATCAATAGGACCAGCTCTTCCGAAAGAGTGTCTCCA
GGTGGCCGGAGGGAGAGCTCTGGGGACTCCAAAGGAAGCCGGAACCGCACGGGCTCAACCAGTAGCTCCT
CCAGCGGCAAGAAGAACAGTGAGAGCAAACCCAAGGAGCCCGCATTCAGTCCAGAAGAAGGATATGTAAA
AATGTTTCTTCGAGGCCGTCCGGTCACCATGTACATGCCCAAAGACCAAGTGGATTCGTACAGTTTGGAA
GCAAAAGCTGAGTTACCAACGAAGCGGCTGAAACTGGAGTGGGTCTACGGGTACCGGGGGCGAGACTGTC
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GTGCTGTCCGTGTGGGATTGGCAGAAAGAAGAGAGACTGGCCGACGTGAAGTGTTCGAACGAAGCGGTAT
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CAAAAACTTCACAAAGCAGAGATTCCTGAGCAGTTTGGCCCAATACGGACAGTAGCCGAAGGGAAGGGCA
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CACTCAGGGCCACACCGATGAGCTCTGGGGGCTAGCCATCCATGCCTCCAAGCCTCAGTTCCTGACTTGT
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CAGTTCCGGGCTCCAAGCCACATCTACAGTGGACACAGCAGCCACGTCACCAACGTGGACTTCCTCTGTG
AAGACAGCCACCTTATCTCCACGGGTGGGAAAGACACAAGCATCATGCAGTGGCGAGTCATT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

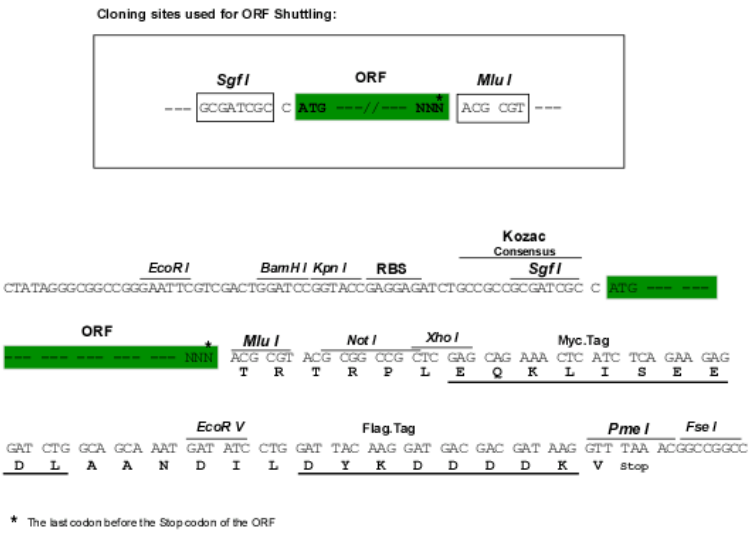
>MR217188 protein sequence
Red=Cloning site Green=Tags(s)

MEDGFSSYSSLYDTSSLLQFCNDDSASAASSMEVSDRIASLEQRVQMQEDDIQLLKSALADVVRRLNITE
EQQAVLNRKGPTKARPLGQTLPLRTTVNNGTVLPKKPSASLPAPSGARKEVVVPVTKSINRTSSSERVSP
GGRRESSGDSKGSRNRTGSTSSSSSGKKNSESKPKEPAFSPEEGYVKMFLRGRPVTMYMPKDQVDSYSLE
AKAELPTKRLKLEWVYGYRGRDCRNNLYLLPTGETVYFIASVVVLYNVEEQLQRHYAGHNDDVKCLAVHP
DRITIATGQVAGTSKDGKQLPPHVRIWDSVTLNTLHVIGIGFFDRAVTCIAFSKSNGGGHLCAVDDSNDH
VLSVWDWQKEERLADVKCSNEAVFAADFHPTDTNIIVTCGKSHLYFWTLEGNSLNKKQGLFEKQEKPKFV
LCVTFSENGDTITGDSSGNILVWGKGTNRISYAVQGAHEGGIFALCMLRDGTLVSGGGKDRRLISWNGNY
QKLHKAEIPEQFGPIRTVAEGKGNVILIGTTRNFVLQGTLSGDFTPITQGHTDELWGLAIHASKPQFLTC
GHDKHATLWDAVGHRPVWDKIIEDPAQSSGFHPSGSVVAVGTLTGRWFVFDTETKDLVTVHTDGNEQLSV
MRYSPDGNFLAIGSHDNCIYIYGVTDNGRKYTRVGKCSGHSSFITHLDWSVNSQFLVSNSGDYEILYWVP
SACKQVVSVETTRDIEWATYTCTLGFHVFGVWPEGSDGTDINAVCRAHERKLLCTGDDFGKVHLFSYPCS
QFRAPSHIYSGHSSHVTNVDFLCEDSHLISTGGKDTSIMQWRVI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

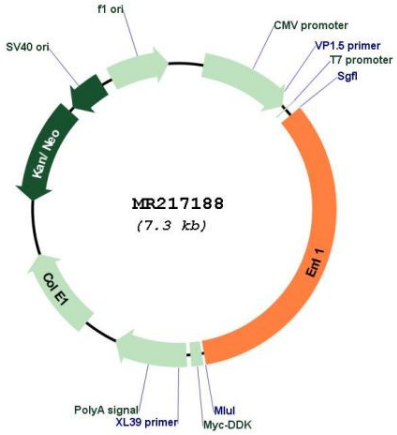


ACCN: NM_001043335

ORF Size: 2445 bp

OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. 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_001043335.1, NP_001036800.1
RefSeq Size:	4160 bp
RefSeq ORF:	2445 bp
Locus ID:	68519
UniProt ID:	Q05BC3
Cytogenetics:	12 59.46 cM
MW:	89.7 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 MR217188