

Product datasheet for **RC231424**

EML2 (NM_001193268) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EML2 (NM_001193268) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	EML2
Synonyms:	ELP70; EMAP-2; EMAP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC231424 representing NM_001193268
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGGAACGAAGGGCGTTGCTATGGCAACGGGAGGCAGGGCCTGGTTGGGGGACCGGGCCCGGGCTG
 GGACCGGGGGGGCGCGGTGGCTGTGGTGGGGCGATGGCGGAGCGCGGCCCGCCCTTCTGCGGCTGTA
 CGACACGTCCTCGCTGCTGCGATACTGCAACGATGACAATTTGTCGGGCACGAGCGGTATGGAAGTGGAC
 GACCGCGTGTGCGCGCTGGAGCAGCGGCTGCAGTTACAGGAAGACGAGCTGGCGGTCTAAAGGCGGCGC
 TGGCGGATGCTCTGCGTCGCTGCGGCATGCGAAGAACAGGGAGCGGCGCTACGCGCGCGGGGACCCCC
 CAAGGGCCGGGCGCTCCGCGCTTAGGCACCACTGCCTCGGTGTGTGAGCTCTTGAAGGCTTCCACC
 AGGACGCCCTTAATGGCTCGGGACCCCGCGGCGGTGGGTGGCTATGCCACGTCCCATCTCTCCCA
 AGAAGGAGGCGACCTCCGGGCGCAGCAGTGTCCGCGCTACTTGTACCAGAGCGCTCGCTCGGTGCG
 CCGTGAGGACCCCGCAGCCGGACACATCTCCAGCAGCAACTGTAGCGCAAAAAGGAAGGCAAAACC
 AAAGAAGTTATCTTCAGTGTGGAGGATGGCTCCGTGAAAATGTTCTGAGGGGCCCGCTGTGCCATGA
 TGATCCCAGACGAGCTGGCACCCACCTACAGCCTGGACACACGCTCGGAGCTGCCTTCTGCCGGCTCAA
 GCTGGAGTGGGTCTATGGCTACCGTGGCCGAGACTGCCGGGCCAACCTTTATTTGCTGCCACCGGGGAG
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 TTACACGTGCTGGGCTTGGGGTGTGTTGACAGAGCCGTGTGCTGTGTGGGCTTCTCCAAATCTAATGGAG
 GCAACCTGCTGTGTGAGTGGATGAATCCAATGATCACATGCTCTCGGTGTGGGACTGGGCAAGGAGAC
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 GTGCTTATCACCTGCGGGAATCTCACATCTACTTCTGGACCTTGGAGGGGGGACGCTTGAAGCAAGCGGC
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 GCCGTGATCGGCGGTGGTCTCTGGGTTCTGACTACAGCAAGCTGCAGGAAGTGGAGGTCCCTGAGGA
 CTTTGGCCCTGTGCGCACCGTGGCAGAGGGCCACGGAGACACACTGTACGTGGGACCACCCGAATTCC
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 AGATTCACACAGCCCTGTGGAGCAGGATCATCGAGGACCTGCCCCTCAGCCGGCTTCCACCCAGT
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 CCAACTCCGGGACTATGAGATTCTGTACTGGGACCCGGCTACCTGTAAGCAGATCACCAGTGGGATGC
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 GACACCAGTGTGTACAGTGGCGGTGGTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC231424 representing NM_001193268
Red=Cloning site Green=Tags(s)

MLERRALLWQREAGPGWDRARAGTGGAGGGCGGAMAERGP AFCGLYDTSSLLRYCNDNDLSGTSGMEVD
DRVSALEQRLQLQEDELAVLKAALADALRRLRACEEQGAALRARGTPKGRAPPRLGTTASVCQLLKGLPT
RTPLNGSGPPRRVGGYATSPSSPKKEATSGRSSVRRYLSPERLASVRREDPRSRTTSSSSNCSAKKEGKT
KEVIFSVEDGSVKMFLRGRPVMMIPDELAPTYSLDTRSELPSCRLEWVYGYGRDCRANLYLLPTGE
IVYFVASVAVLYSVEEQQRHYLGHNDDIKCLAIHPDMVTIATGQVAGTTKEGKPLPPHVRIWDSVSLST
LHVLGLGVFDRAVCCVGFSSNGGNLLCAVDESNDHMLSVWDWAKETKVVDVKCSNEAVLVATFHPTDPT
VLITCGKSHIYFWTLEGGSLSKRQGLFEKHEKPKYVLCVTFLEGGDVVTGDSGNLYVWGKGNRITQAV
LGAHDGGVFGLCALRDGTLVSGGRRRRVVLWGS DYSKLQEVEVPEDFGPVRTVAEGHGDLYVGTTRNS
ILQGSVHTGFSLLVQGHVEELWGLATHPSRAQFVTCGQDKLVHLWSSDSHQPLWSRIIEDPARSAGFHPS
GSVLAVGTVTGRWLLDTETHDLVAIHTDGNEQISVVSFSPDGAYLAVGSHDNLVYVYTVQGGKRVSR
LKCSGHSFI THLDWAQDSSCFVTNSGDYEILYWD PATCKQITSADAVRNM EWATATCVLGFVFGI WSE
GADGTDINAVARSHDGKLLASADDFGKVHLFSYPCCPRALSHKYGGHSSHVTNVAFLWDDSMALTTGGK
DTSVLQWRVV

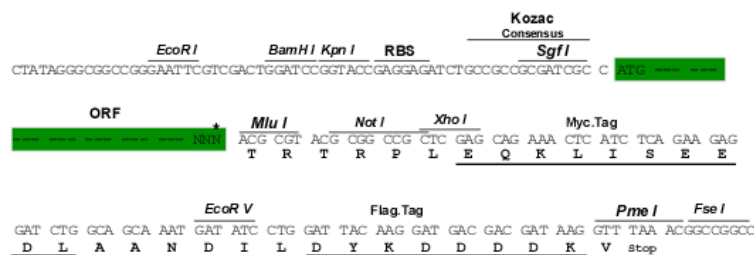
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8107_b07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

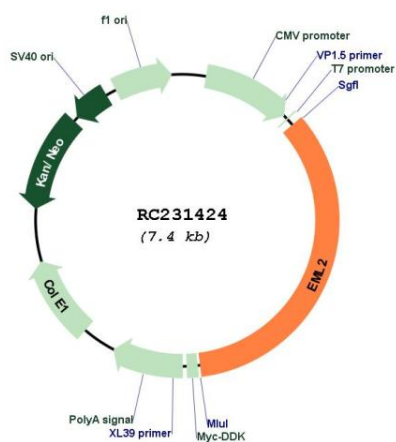
Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN:	NM_001193268
ORF Size:	2550 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_001193268.3
RefSeq ORF:	2553 bp
Locus ID:	24139
UniProt ID:	O95834
Cytogenetics:	19q13.32
Protein Families:	Transmembrane
MW:	92.5 kDa
Gene Summary:	Tubulin binding protein that inhibits microtubule nucleation and growth, resulting in shorter microtubules.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC231424