

Product datasheet for **RC231416**

EML2 (NM_001193269) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EML2 (NM_001193269) 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)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RC231416 representing NM_001193269
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGAGTCTGGATGACAATTTGTCTGGGCACGAGCGGTATGGAAGTGGACGACCGCGTGTCTGGCGCTGGAGC
 AGCGGCTGCAGTTACAGGAAGACGAGCTGGCGGTCTAAAGGCGGCGCTGGCGGATGCTCTGCGTCGCCT
 GCGGGCATGCGAAGAACAGGGAGCGCGCTACGCGCGCGGGGCACCCCAAGGGCCGGCGCCTCCGCGC
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 TGTTTGACAGAGCCGTGTGCTGTGTGGGCTTCTCCAAATCTAATGGAGGCAACCTGCTGTGTGCACTGGA
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 TCCAATGAGGCTGTATTGGTGGCCACCTTCCACCCACGGACCCCACTGTGCTTATCACCTGCGGGAAT
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 GAAACCGAAGTATGTGCTGTGTGTGACCTTTTTGGAAGGTGGCGACGTGCTCACGGGGGACTCTGGGGG
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 CTGGGGTTCTGACTACAGCAAGCTGCAGGAAGTGGAGGTCCCTGAGGACTTTGGCCCTGTGCGCACCGTG
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 GGTGGTC

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 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC231416 representing NM_001193269

Red=Cloning site Green=Tags(s)

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MSLDDNLSGTSGMEVDDRVSALQRLQLQEDELAVLKAALADALRRLRACEEQGAALRARGTPKGRAPPR
LGTTASVCQLLKGLPTRTPLNGSGPPRRVGGYATSPSSPKKEATSGRSSVRRYLSPERLASVRREDPRSR
TTSSSSNCSAKKEGKTKEVIFSVEDGSVKMFLRGRVPMMIPDELAPTYSLDTRSELPSCRLKLEWVYGY
RGRDCRANLYLLPTGEIVYFVASVAVLYSVEEQRQRHYLGHNDDIKCLAIHPDMVTIATGGVAGTTKEGK
PLPPHVRIWDSVSLSTLHVLGLGVFDRAVCCVGFSSKNGGNLLCAVDESNDHMLSVWDWAKETKVVDVKC
SNEAVLVATFHPTDPTVLITCGKSHIYFWTLEGGSLSKRQGLFEKHEKPKYVLCVTFLEGGDVVTGDSGG
NLYVWGKGGNRITQAVLGAHDGGVFGLCALRDGTLVSGGGRDRRVVLWGS DY SKLQEVEVPEDFGPVRTV
AEGHGD TLYVGTTRNSILQGSVHTGFSLLVQGHVEELWGLATHPSRAQFVTCGQDKLVHLWSSDSHQPLW
SRIIEDPARSAGFHPSGSVLAVGTVTGRWLLDTETHDLVAIHTDGNEQISVVSFSPDGAYLAVGSHDNL
VYVYTVDQGGRKVSRLGKCSGHSSFITHLDWAQDSSCFVTNSGDYEILYWDPATCKQITSADAVRNMEWA
TATCVLGFVFGI WSEGADGTDINAVARSHDGKLLASADDFGKVHLFSYPCCQPRALSHKYGGHSSHVTN
VAFLWDDSMALTTGGKDTSVLQWRVV
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfi-MluI

Cloning Scheme:



ACCN: NM_001193269

ORF Size: 2388 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_001193269.2

RefSeq ORF: 2391 bp

Locus ID: 24139

UniProt ID: O95834

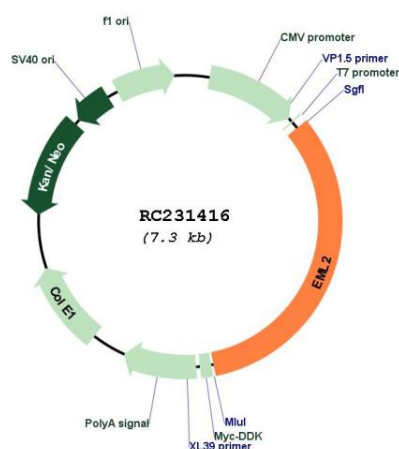
Cytogenetics: 19q13.32

Protein Families: Transmembrane

MW: 86.9 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 RC231416