

Product datasheet for **RG221244**

EML2 (NM_012155) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EML2 (NM_012155) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	EML2
Synonyms:	ELP70; EMAP-2; EMAP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG221244 representing NM_012155
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGAGTAGCTTTGGAGCTGGCAAAACAAAGAAGTTATCTTCAGTGTGGAGGATGGCTCCGTGAAAATGT
 TCCTGAGGGGCCGCCCTGTGCCATGATGATCCCAGACGAGCTGGCACCCACCTACAGCCTGGACACAG
 CTCGGAGCTGCCTTCTTGCCGGCTCAAGCTGGAGTGGGTCTATGGCTACCGTGGCCGAGACTGCCGGGCC
 AACCTTTATTTGCTGCCACCGGGGAGATAGTGTACTTTGTGGCCTCCGTAGCCGTGCTATACAGCGTGG
 AGGAGCAGAGGCAGCAGCACTACCTGGGACACAACGATGACATCAAATGCTTGGCCATCCACCCAGATAT
 GGTCACCATCGCCACGGGACAGGTGGCGGGAACCACTAAGGAAGGGAAGCCGCTGCCGCCACGTGCGC
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 CTCGGTGTGGGACTGGGCAAGGAGACCAAGGTGGTGGATGTCAAGTGTCCAATGAGGCTGATTGGTG
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 TGGAGGGGGGAGCTTGAGCAAGCGGCAAGGCCTCTTTGAGAAACATGAGAAACCGAAGTATGTGCTGTG
 TGTGACCTTTTGAAGGTGGCGACGTGGTACGGGGGACTCTGGGGGGAACCTCTATGTTTGGGCAAA
 GGTGGGAACCGTATCACACAGCGGTGCTGGGCGCCACGACGGCGGCGTGTGGGGCTCTGCGCCCTGC
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 GCTGCAGGAAGTGGAGGTCCCTGAGGACTTTGGCCCTGTGCGCACCCTGGCAGAGGGCCACGGAGACACA
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 ATGGGAAGTTGCTGGCTTCACTGATGACTTTGGCAAAGTTACCTGTTTAGCTACCCCTGCTGTACGCC
 TCGAGCCCTCAGCCACAAGTACGGTGGACACAGCAGCCATGTGACAAATGTGGCCTTCTGTGGGATGAC
 AGCATGGCCCTGACCACAGGGGGCAAGGACACCACTGTGCTACAGTGGCGGGTGGTC

ACGCGTACGCGGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

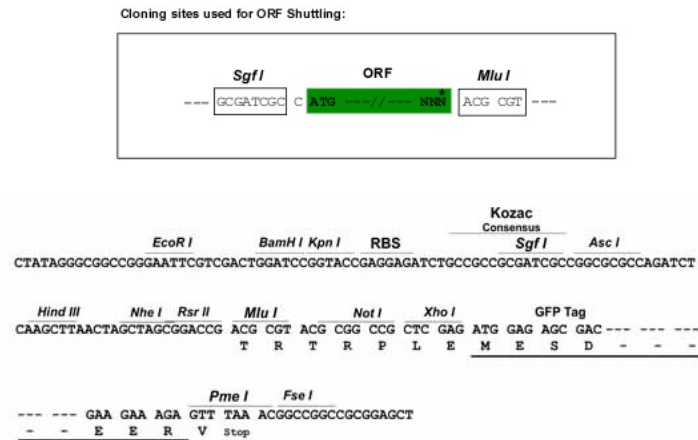
>RG221244 representing NM_012155
 Red=Cloning site Green=Tags(s)

MSSFAGKTKEIFSVEDGSVKMFLRGRVPMIPDELAPTYSLDTRSELPSCRLKLEWVYGYRGRDCRA
 NLYLLPTGEIVYFVASVAVLYSVEEQRRHYLGHNDIKCLAIHPDMVTIATGQVAGTTKEGKPLPPHVR
 IWDSVSLSTLHVLGLGVFDRVCCVGFSGSNNGNLLCAVDESNDHMLSVWDWAKETKVVDVKCSNEAVLV
 ATFHPTDPTVLITCGKSHIYFWTLEGGSLSKRQGLFEKHEKPKYVLCVTFLEGGDVVTGDSGGNLYVWGK
 GGNRITQAVLGAHDGGVFGLCALRDGTLVSGGGRDRRVVLWGS DYSKLQEVEVPEDFGPVRTVAEGHGD
 LYVGTTRNSILQGSVHTGFSLLVQGHVEELWGLATHPSRAQFVTCGQDKLVHLWSSDSHQPLWSRIEDP
 ARSAGFHPSGSLAVGTVTGRWLLLDTEHDLVAIHTDNEQISVVSFSPDGAYLAVGSHDNLVYYVTVD
 QGGRKVSRLGKCSGHSSFITHLDWAQDSSCFVTNSGDYEILYWDPATCKQITSADAVRNM EWATATCVLG
 FGVFGIWESEGADGTDINAVARSHDGKLLASADDFGKVHLFSYPCCQPRALSHKYGGHSSHVTNVAFLWDD
 SMALTTGGKDTSVLQWRVV

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_012155

ORF Size: 1947 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.

RefSeq: [NM_012155.4](#)

RefSeq Size: 2275 bp

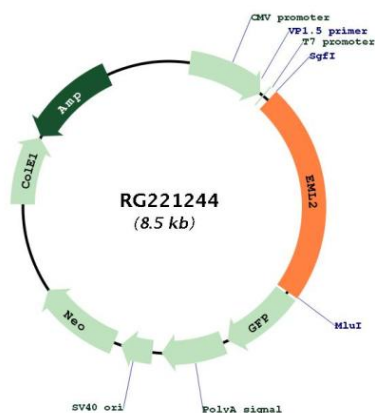
RefSeq ORF: 1950 bp

Locus ID: 24139

UniProt ID: [O95834](#)

Cytogenetics:	19q13.32
Domains:	WD40, HELP
Protein Families:	Transmembrane
Gene Summary:	Tubulin binding protein that inhibits microtubule nucleation and growth, resulting in shorter microtubules.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG221244