

Product datasheet for **MG216243**

Eml2 (NM_028153) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Eml2
Synonyms:	1600029N02Rik; EMAP-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >MG216243 representing NM_028153
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGTAGTTTTGGAATTGGGAAAACCAAGAAGTTATCTTCAGCATGGAGGAGGGATCCGTAAGATGT
 TTCTGCGGGGACGCCCTGTGCCCATGCTGATCCCGACGAACCTGGCGCCACCTATAGCCTGGACACTCG
 TTCTGAGCTGCCCTCCAGCCGGCTAAAGCTAGACTGGGTGTATCCTTTGACTAGCTCCCTTTCTGCCCTC
 TTGGAAGAGGCCCTGGGCTTCTCCAGCTATGGCTATCGAGGCCGGGACTGCAGGGCCAACTTTACCTCC
 TGCCCACTGGGAGGTGGTGTACTTTGTGGCCTCTGTGGCGTACTGTACAGCGTGGAGGACAGAGACA
 ACGACACTACTGGGGACAACAGATGACATCAAATGTCTGGCTGCCATCCAGATATGGTACCATCGCC
 ACAGGACAGGTGGCAGGCCACAAAGGAAGCAAGCCTCTGCCACCCATGTGCGTGTGTGGGACTCGG
 TTTCCCTTTCCACCTTACACGTCTGGCCTGGGGTGTGGTACAGAGCTGTGTGTGTGGCCTTCTC
 CAAATCAAATGGGGCAACCTGCTATGTGCAGTGGACGAATCCAACGACCATGTGCTCTGTGTGGGAC
 TGGGCCAAGGAGAGCAAAGTGGTGGATAGCAAGTGTCTAACGAGGCAAGTGTAGTGCCACCTTCCACC
 CCACTGATCCAGCCTGCTGATAACCTGTGGCAAATCCACATCTACTTCTGGAGCCTGGAGGGAGGCGAG
 TCTGAGCAAGAGGACGGCCCTGTTTCGAAAACACGAGAAAACCAAAGTACGTGCTGTGTGTGACCTTCTG
 GAAGTGGCGATGTGGTCACTGGAGACTCTGGGGGAACTCTATGTCTGGGGCAAAGTGGAAAACCGCA
 TCACCCAGGAAGTTCAAGGAGCCCATGATGGTGGCGTGTGGTCTCTGCGCCCTGCGGGACGGGACGCT
 GGTGTCTGGAGGGGCCGCGATCGTAGGGTGGTCTCTGGGTTCCGACTACAGCAAGGTGCAGGAGGTG
 GAGGTCCCAGAGGACTTCGGCCCTGTACGCACCGTGGCAGAGGGCCGGGAGACACTGTACGTGGGGA
 CCACCCGTAACCTATCTGTAGGCTCGGTGCACACAGGGTTTTCGCTGCTTGTCCAGGGACATGTGGA
 GGAGCTGTGGGGCCTGGCCACACATCCTAGCAGGGCACAGTTTGTGACCTGTGGGCAGGACAAGTGGTG
 CATCTGTGGAGTTCGAGACCCAGCCAGTGTGGAGCAGGAGCATCGAGGACCCTGCCGTTCCGGCTG
 GCTTCCACCCAGTGGCTCCGTCTAGCGTGGCAGTACCGGCGAGTGGCTGCTACTGGACACAGA
 GACCCATGACCTGGTGGCTATCCACACAGATGGCAATGAGCAGATCTCCGTGGTCACTTTTCCACAG
 GGGCGTACTTGGCTGTGGGCTCCACGACAACCTGGTGTACGTGTACAGCGTGGACAGGGTGGCCGCA
 AGGTACGCCGCTGGGCAAGTGTCTGGGCCATTCCAGTTTTATCACCCACCTGGATTGGGCCAGGACAG
 CACCTGCTTTGTCACCAACTCTGGAGACTACGAGATTCTGTACTGGGACCCCGTCACTGTAAGCAAATC
 ACCAGTGCAGACACCGTGAACGAGTGGAAATGGGCTACCGCCACTGTGTGTTGGGTTTTGGAGTGTGG
 GGATTTGGCCCGAGGGAGCAGATGGCACAGACATCAATGCTGTGGCCCGCTCTCATGATGGGAAGTTGCT
 GGTTTTCTGCTGACGACTTTGGCAAAGTGCACCTGTTACGCTACCCCTGCTGTGACCCGAGAGCCCTCAGC
 CAAAAACGGTGGACACAGCAGCCATGTGACTAATGTGCCCTTCTGTGGGATGACAGCATGGCCCTAA
 CCACTGGGGCAAAGACACGAGCGTGTGCACTGGCGGGTGGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG216243 representing NM_028153
 Red=Cloning site Green=Tags(s)

MSSFGIGKTKEIFSMEEGSVKMFLRGRPVPMIPDELAPTYSLDTRSELSSRLKLDWVYPLTSSLSAL
 LEEALGFSSYGRGRDCRANLYLLPTGEVYFVASVAVLYSVEEQRQRHYLGHNDIKLAVHPDMVTIA
 TGQVAGTTKEGKPLPPHVRVWDSVSLSTLHVLGLGVFDRVCCVAFSKSNGGNLLCAVDESNDHVLVSWD
 WAKESKVVDKSCSNEAVLVATFHPTDPSLLITCGKSHIYFWSLEGGSLSKRQGLFEKHEKPKYVLCVTF
 EGGDVVTGDSGGNLYVWKGKGNRITQEVQGAHDGGVFALCALRDGTLVSGGRRRRVVLWGSYDYSKVQEV
 EVPEDFGPVRTVAEGRGDTLYVGTTRNSILLGSVHTGFSLLVQGHVEELWGLATHPSRAQFVTCGQDKLV
 HLWSSETHQPVWSRSEDPARSAGFHPGSLVAVGTVTGRWLLDTEHDLVAIHTDNEQISVVSFSPD
 GAYLAVGSHDNLVYVYTVDQGGKVSRLGKCSGHSSFIHLWAQDSTCFVTNSGDYEILYDPVTCCKQI
 TSADTVRNVWATATCVLGFVGFVIWPEGADGTDINAVARSHDGKLLVSAADDGKVVHLFSYPCCQPRALS
 HKYGGHSSHVTNVAFLWDDSMALTTGGKDTSVLQWRVA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:


ACCN: NM_028153

ORF Size: 2004 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.

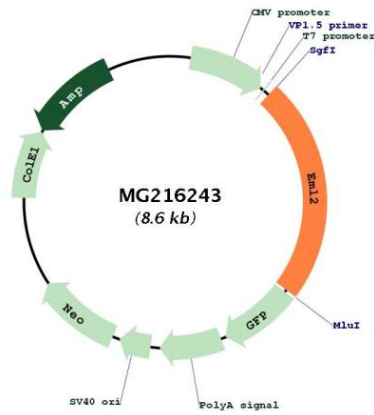
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_028153.1](#), [NP_082429.1](#)

RefSeq Size: 2312 bp

RefSeq ORF:	2007 bp
Locus ID:	72205
UniProt ID:	Q7TNG5
Cytogenetics:	7 A3
Gene Summary:	Tubulin binding protein that inhibits microtubule nucleation and growth, resulting in shorter microtubules.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG216243