

Product datasheet for **SC126756**

EML2 (NM_012155) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EML2 (NM_012155) Human Untagged Clone
Tag:	Tag Free
Symbol:	EML2
Synonyms:	ELP70; EMAP-2; EMAP2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC126756 sequence for NM_012155 edited (data generated by NextGen Sequencing)

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ATGAGTAGCTTTGGAGCTGGCAAAACCAAAGAAGTTATCTTCAGTGTGGAGGATGGCTCC
GTGAAATGTTCTGAGGGGCCGCCCTGTGCCATGATGATCCCAGACGAGCTGGCACCC
ACCTACAGCCTGGACACACGCTCGGAGCTGCCTTCTTGCCGGCTCAAGCTGGAGTGGGTC
TATGGCTACCGTGGCCGAGACTGCCGGGCCAACCTTTATTTGCTGCCACCGGGGAGATA
GTGTACTTTGTGGCCTCCGTAGCCGTGCTATACAGCGTGGAGGAGCAGAGGCAGCGACAC
TACCTGGGACACAACGATGACATCAAATGCTTGGCCATCCACCCAGATATGGTCACCATC
GCCACGGGACAGGTGGCGGGAACCACTAAGGAAGGGAAGCCGCTGCCGCCACGTGCGC
ATCTGGGACTCAGTTTCCTCTCCACCTTACACGTGCTGGGCTTGGGGGTGTTTGACAGA
GCCGTGTGCTGTGTGGGCTTCTCAAATCTAATGGAGGCAACCTGCTGTGTGCAGTGGAT
GAATCCAATGATCACATGCTCTCGGTGTGGGACTGGGCCAAGGAGACCAAGGTGGTGGAT
GTCAAGTGTCTCAATGAGGCTGTATTGGTGGCCACCTTCCACCCACGGACCCCACTGTG
CTTATCACCTGCGGGAATCTCACATCTACTTCTGGACCTTGGAGGGGGCAGCTTGAGC
AAGCGGCAAGGCCTCTTTGAGAAACATGAGAAACCGAAGTATGTGCTGTGTGTGACCTTT
TTGGAAGGTGGCGACGTGGTCACGGGGGACTCTGGGGGGAACCTCTATGTTTGGGGCAAA
GGTGGGAACCGTATCACACAGGCGGTGCTGGGCGCCACGACGGCGCGTGTGTTGGGCTC
TGCGCCCTGCGGGACGGGACGCTGGTGTCTGGAGGGGGCGTGATCGGCGGTGTTCTCTC
TGGGGTTCTGACTACAGCAAGCTGCAGGAAGTGGAGGTCCCTGAGGACTTTGGCCCTGTG
CGCACCGTGGCAGAGGGCCACGGAGACACACTGTACGTGGGGACCACCCGCAATTCCATC
CTGCAGGGCTCCGTGCACACAGGCTTCTCACTGCTGGTCCAGGGCCATGTGGAAGAGCTG
TGGGGCCTGGCCACACACCCAGTCGGGGCCAGTTTGTGACCTGCGGGCAGGATAAGCTG
GTGCATCTATGGAGCTCAGATTCCCACACGCCCTGTGGAGCAGGATCATCGAGGACCTT
GCCCGCTCAGCCGGCTTCCACCCAGTGGCTCTGTCCTGGCTGTGGGTACAGTGACTGGC
AGATGGCTGCTGCTGGACACGGAGACCCATGACCTGGTGGCTATCCACACAGACGGCAAT
GAACAGATCTCAGTGGTCAGCTTCTCCCCAGACGGGGCGTACCTGGCCGTGGGCTCCAC
GACAACTTGGTGTACGTGTACACGGTGGACCAGGGCGGCCGCAAGGTGAGCCGCTGGGC
AAGTGCTCGGGCATTCCAGTTTTATCACCCACCTGGATTGGGCCCAGGACAGCAGCTGC
TTTGTACCAACTCCGGGGACTATGAGATTCTGTACTGGGACCCGGCTACCTGTAAGCAG
ATCACCAAGTGGGATGCTGTGAGGAACATGGAATGGGCCACAGCTACTTGTGTCCTAGGG
TTTGGGGTGTGTTGGGATCTGGTCTGAGGGGGCGGACGGCACTGATATCAACGCTGTGGCC
CGCTCTCATGATGGGAAGTTGCTGGCTTCAGCTGATGACTTTGGCAAAGTTCACCTGTTT
AGCTACCCCTGCTGTGAGCCTCGAGCCCTCAGCCACAAGTACGGTGGACACAGCAGCCAT
GTGACAAATGTGGCCTTCTTGTGGGATGACAGCATGGCCCTGACCACAGGGGGCAAGGAC
ACCAGTGTGCTACAGTGGCGGTGGTCTGA

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Clone variation with respect to NM_012155.2

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_012155 unedited
 TGATTTGTATACGACTTCTATAGCGCGCCGCAATTTCGGCACGAGCCGCCCATGAGTA
 GCTTTGGAGCTGGCAAAACCAAGAAGTTATCTTCAGTGTGGAGGATGGCTCCGTGAAAA
 TGTTCTCTGAGGGGCCGCTGTGCCCATGATGATCCCAGACGAGCTGGCACCCACCTACA
 GCCTGGACACACGCTCGGAGCTGCCTTCTTGCCGGCTCAAGCTGGAGTGGGTCTATGGCT
 ACCGTGGCCGAGACTGCCGGGCCAACCTTTATTTGCTGCCACCGGGGAGATAGTGTACT
 TTGTGGCTCCGTAGCCGTGCTATACAGCGTGGAGGAGCATAGGCAGCGACACTACCTGG
 GACACAACGATGACATCAAATGCTTGGCCATCCACCCAGATATGGTCACCATCGCCACGG
 GACAGGTGGCGGGAACCACTAAGGAAGGGAAGCCGCTGCCGCCACAGTGCATCTGGG
 ACTCAGTTTCCCTCTCCACCTTACACGTGCTGGGCTTGGGGGTGTTTGACAGATCCGTGT
 GCTGTGTGGGCTTCTCCAAATCTAATGGAGGCAACCTGCTGTGTGACGTGGATGAATCCA
 ATGATCACATGCTCTCGGTGTGGGACTGGGCCAAGGAGACCAAGGTGGTGGATGTCAAGT
 GCTCCAATGATGCTGTATTGGTGGCCACCTTCCACCCACGGACCCCACTGTGCTTATCA
 CCTGCGGNAATCTCACATCTACTTCTGAACCTTGGNAGGGGGCACCTTGAGCAGCCGCA
 AGGCCTCTCTGAGAACATGAGAAACCGAATATGTGCTGGGTGGAACCTTTGGGAAGTGGC
 GACTGGTCACGGGGGACTTTGGGGGATCCCTTGTGTTGGGCAAAGGGGGAACCTTTACAC
 AGCGGGCTGGGCGCCACACGGGGGGTGGGCTTGGCCCTCGGAAGGAACCTGTTTTG
 AG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_012155 unedited
 TTTNTACGTTTTACTATGAACGCGCCGCATACANGACTCGGTTTTTTTTTTTTTTTTTTA
 GTGTACGTGTCTTTATTTCTGGGAGATATAAAAGAAAAAAGTTAAAAACACCCCAAACC
 AAACACCAATGGATCCCCAAAGCGATGTGACTCCCTCTTCCACCCGGATAAATAGAGAC
 TTCTGTATGTGCTACTACCTCCCGCCCCATAACCCCTCTGCTATAGACATACTCTGG
 GTATATATTACTTACTCGGCAATAGACATCTCCCGAAAAAGAAATTCCTGCCCTGACAC
 CTGACTCTTCCCTGGCCGCATCAGACCACCCGCCACTGTAGCACACTGGTGTCTTGCCC
 CCTGTGGTCAGGGCCATGCTGTCTATCCACAAGAAGGCCACATTTGTACATGGCTGCTG
 TGTCACCGTACTTGTGGCTGAGGGCTCGAGGCTGACAGCAGGGGTAGCTAAACAGGTGA
 ACTTTGCCAAAGTCATCAGCTGAAGCCAGCAACTTCCCATCATGAGAGCGGGCCACAGCG
 TTGATATCAGTGCCGTCGCCCTCAGACCAGATCCCAACACCCCAACCTTAGGACA
 CAAGTAGCTGTGGCCATTCCATGTTCTCAGAGCATCCGCACTGGTGATCTGCTTACAG
 GTAGCCGGGTCCAGTACAGAATCTCATAGTCCCGGAGTTGGTGACAAAGCAGCTGCTG
 TCCTGGGCCCAATCCAGGTGGGTGATAAACTGGAATGGCCCGAGCACTTGCCAGGCGG
 CTGACCTTGCGGCCGCCCTGGTCCACCGTGTACACGTACACCAAGTTGTCGTGG

Restriction Sites:

NotI-NotI

ACCN:

NM_012155

Insert Size:

2450 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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:	<u>NM_012155.1, NP_036287.1</u>
RefSeq Size:	2269 bp
RefSeq ORF:	1950 bp
Locus ID:	24139
UniProt ID:	<u>O95834</u>
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] Transcript Variant: This variant (2) differs in the 5' UTR and 5' coding region which results in the use of a different start codon, compared to variant 1, and an isoform (2) with a shorter and distinct N-terminus, compared to isoform 1.