

Product datasheet for **SC318431**

EML4 (NM_019063) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EML4 (NM_019063) Human Untagged Clone
Tag:	Tag Free
Symbol:	EML4
Synonyms:	C2orf2; ELP120; EMAP-4; EMAPL4; ROPP120
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 sequence for NM_019063 edited
 ATGGACGGTTTCGCCGGCAGTCTCGATGATAGTATTTCTGCTGCAAGTACTTCTGATGTT
 CAAGATCGCCTGTGAGTCTTGGAGTACGAGTTTCAAGCAACAAGAAGTGAATCACTGTG
 CTAAAGGCGGCTTTGGCTGATGTTTTGAGGCGTCTTGAATCTCTGAAGATCATGTGGCC
 TCAGTG:AAAAATCAGTCTCAAGTAAAGGCCAACCAAGCCCTCGAGCAGTTATTTCCCAT
 GTCCTGTATAACCAATGGAAGTGGTGCAACAGAAAACCAAGTCATACCAGTGTGTCTC
 AATTGCAGGAAAAGAACTCTTTCATCTGCTGCTAAAAGTGGTACAGAAAAAGAAAGA
 AAAACCAAGGACAGAGAGAAAAAGAGGAATCTCATTCTAATGATCAAAGTCCACA
 AATTCGAGCATCACCTTCTCCCCAGCCCTCTTCAACCTCTCCAAATACACAGACAAAC
 TCCAGAAAGCAAGATGCTACTCCACCAAAAAGCATAAAACGACCATCACCAGTGAAAA
 GTCACATAATTCTTGGGAAAATTCAGATGATAGCCGTAATAAATTGTCGAAAATACCTTC
 AACACCCAAATTAATACCAAAAGTTACCAAACTGCAGACAAGCATAAAGATGTCATCAT
 CAACCAAGAAGGAGAATATATTAATGTTTATGCGCGGTGCGCAATTACCATGTTTAT
 TCCTTCGATGTTGACAACTATGATGACATCAGAACGGAAGTGCCTCTGAGAAGCTCAA
 ACTGGAGTGGGCATATGTTTATCGAGGAAAGGACTGTAGAGCTAATGTTTACCTTCTCC
 GACCGGGGAAATAGTTTATTTTCATTGCATCAGTAGTAGTACTATTTAATTATGAGGAGAG
 AACTCAGCGACACTACCTGGGCCATACAGACTGTGTGAAATGCCTTGCTATACATCCTGA
 CAAAATTAGGATTGCAACTGGACAGATAGCTGGCGTGGATAAAGATGGAAGGCCTCTACA
 ACCCCACGTGAGAGTGTGGGATTCTGTTACTCTATCCACACTGCAGATTATTGGACTTGG
 CACTTTTGAGCGTGGAGTAGGATGCCTGGATTTTTCAAAGCAGATTACAGGTGTTTATTT
 ATGTGTTATTGATGACTCCAATGAGCATATGCTTACTGTATGGGACTGGCAGAGGAAAGC
 AAAAGGAGCAGAAATAAGACAACAAATGAAGTTGTTTTGGCTGTGGAGTTTACCCCAAC
 AGATGCAAAATACCATAATTACATGCGGTAATCTCATATTTTCTTCTGGACCTGGAGCGG
 CAATTCATAACAAGAAAACAGGGAATTTTGGGAAATATGAAAAGCCAAAATTTGTGCA
 GTGTTTAGCATTCTTGGGAATGGAGATGTTCTTACTGGAGACTCAGGTGGAGTCATGCT
 TATATGGAGCAAACTACTGTAGAGCCACACCTGGGAAAGGACCTAAAGGTGTATATCA
 AATCAGCAAACAATCAAAGCTCATGATGGCAGTGTGTTACACTTTGTCAGATGAGAAA
 TGGGATGTTATTAAGTGGAGGAGGAAAGACAGAAAAATAATTCTGTGGGATCATGATCT
 GAATCCTGAAAGAGAAATAGAGGTTCTGATCAGTATGGCACAATCAGAGCTGTAGCAGA
 AGGAAAGGCAGATCAATTTTATAGGACATCACGAACTTTATTTACGAGGAACATT
 TAATGATGGCTTCAAATAGAAGTACAGGGTCATACAGATGAGCTTTGGGGTCTTGCCAC
 ACATCCCTTCAAAGATTTGCTCTTGACATGTGCTCAGGACAGGCAGGTGTGCCTGTGGAA
 CTCAATGGAACACAGGCTGGAATGGACAGGCTGGTAGATGAACAGGACACTGTGCAGA
 TTTTCATCCAAGTGGCACAGTGGTGGCCATAGGAACGCACTCAGGCAGGTGGTTTGTCT
 GGATGCAGAAACCAGAGATCTAGTTTCTATCCACACAGACGGGAATGAACAGCTCTCTGT
 GATGCGTACTCAATAGATGGTACCTTCTGCTGGCTGTAGGATCTCATGACAACTTTATTTA
 CCTCTATGTAGTCTCTGAAAATGGAAGAAAATATAGCAGATATGGAAGGTGCACTGGACA
 TTCCAGCTACATCACACCTTGACTGGTCCCCAGACAACAAGTATATAATGTCTAACTC
 GGGAGACTATGAAATATTGACTGGGACATTCCAAATGGCTGCAAACTAATCAGGAATCG
 ATCGGATTGTAAGGACATTGATTGGACGACATATACCTGTGTGCTAGGATTTCAAGTATT
 TGGTGTCTGGCCAGAAGGATCTGATGGGACAGATATCAATGCACTGGTGGATCCCAACA
 TAGAAAGGTGATAGCTGTTGCCGATGACTTTTGTAAAGTCCATCTGTTTCAGTATCCCTG
 CTCCAAAGCAAAGGCTCCAGTCACAAGTACAGTGCCACAGCAGCCATGTACCAATGT
 CAGTTTTACTCACAATGACAGTCACCTGATATCAACTGGTGGAAAAGACATGAGCATCAT
 TCAGTGGAACTTGTGGAAAAGTTATCTTTGCCTCAGAATGAGACTGTAGCGGATACTAC
 TCTAACCAAGGCCCGTCTCTTCCACTGAAAGTGTATCCAATCTAATACTCCACACC
 GCCTCCTTCTCAGCCCTTAAATGAGACAGCTGAAGAGGAAAGTAGAATAAGCAGTTCTCC
 CACACTTCTGGAGAACAGCCTGGAACAACTGTGGAGCCAAGTGAAGACCACAGCGAGGA
 GGAGAGTGAAGAGGGCAGCGGAGACCTTGGTGAGCCTCTTTATGAAGAGCCATGCAACGA
 GATAAGCAAGGAGCAGGCCAAAGCCACCCTTCTGGAGGACCAGCAAGACCCTTCGCCCTC
 GTCCTAA

Restriction Sites:	Please inquire
ACCN:	NM_019063
Insert Size:	5577 bp
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. 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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_019063.2 , NP_061936.2
RefSeq Size:	5577 bp
RefSeq ORF:	5565 bp
Locus ID:	27436
UniProt ID:	Q9HC35
Cytogenetics:	2p21
Domains:	WD40, HELP
Protein Families:	Druggable Genome

Gene Summary:

This gene is a member of the echinoderm microtubule associated protein-like family. The encoded WD-repeat protein may be involved in microtubule formation. Abnormal fusion of parts of this gene with portions of the anaplastic lymphoma receptor tyrosine kinase gene, which generates EML4-ALK fusion transcripts, is one of the primary mutations associated with non-small cell lung cancer. Alternative splicing of this gene results in two transcript variants. [provided by RefSeq, Jan 2015]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (a).