

Product datasheet for **SC115455**

MAPRE1 (NM_012325) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAPRE1 (NM_012325) Human Untagged Clone
Tag:	Tag Free
Symbol:	MAPRE1
Synonyms:	EB1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC115455 sequence for NM_012325 edited (data generated by NextGen Sequencing)

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ATGGCAGTGAACGTATACTCAACGTCAGTGACCAGTGATAACCTAAGTCGACATGACATG
CTGGCCTGGATCAATGAGTCTCTGCAGTTGAATCTGACAAAGATCGAACAGTTGTGCTCA
GGGGCTGCGTATTGTGAGTTTATGGACATGCTGTTCCCTGGCTCCATTGCCTTGAAGAAA
GTGAAATTCGAAGCTAAGCTAGAACACGAGTACATCCAGAACTTCAAATACTACAAGCA
GGTTTTAAGAGAATGGGTGTTGACAAAATAATTCCTGTGGACAAATTAGTAAAAGGAAAAG
TTTCAGGACAATTTGAATTCGTTCAAGTGGTTCAAGAAGTTTTTCGATGCAAACTATGAT
GGAAAAGACTATGACCCTGTGGCTGCCAGACAAGGTCAAGAACTGCAGTGGCTCCTTCC
CTTGTGCTCCAGCTCTGAATAAACCGAAGAACTCTCACTTCTAGCAGTGCAGCTCCC
CAGAGGCCCATCTCAACACAGAGAACCCTGCGGCTCCTAAGGCTGGCCCTGGTGTGGTG
CGAAAGAACCCTGGTGTGGGCAACGGAGACGACGAGGCAGCTGAGTTGATGCAGCAGGTC
AACGTATTGAACTTACTGTTGAAGACTTGGAGAAAGAGAGGGATTTCTACTTCGAAAAG
CTACGGAACATTGAATTGATTTGCCAGGAGAACGAGGGGAAAACGACCCTGATTGCAG
AGGATTGTAGACATTCTGTATGCCACAGATGAAGGCTTTGTGATACCTGATGAAGGGGGC
CCACAGGAGGAGCAAGAAGATTAA
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Clone variation with respect to NM_012325.2



[View online »](#)

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_012325 unedited
 CGCCGTTCCGGATTTTGTATACGACTCATATAGGCGGCCGCGCAATTCGCACGAGGCCGAG
 CTCCGCCCCCGCGCGCGGCTGAGTCCCTCTCTATAAAAGGAGCCGGCGGAGGATGACGA
 GCCTTTACGTCGGCGCGTAACGAGGGGAAGATGGCAGTGAACGTATACTCAACGTCAGTG
 ACCAGTGATAACCTAAGTCGACATGACATGCTGGCCTGGATCAATGAGTCTTGCAGTTG
 AATCTGACAAAGATCGAACAGTTGTGCTCAGGGGCTGCGTATTGTCAGTTTATGGACATG
 CTGTTCCCTGGCTCCATTGCCTTGAAGAAAGTGAATTCGAAGCTAAGCTAGAACACGAG
 TACATCCAGAACCTCAAATACTACAAGCAGGTTTTAAGAGAATGGGTGTTGACAAAATA
 ATTCCTGTGGACAAATTAGTAAAAGGAAAGTTTCAGGACAATTTTGAATTCGTTCACTGG
 TTCAAGAAGTTTTTCGATGCAAACATGATGGAAAAGACTATGACCCTGTGGCTGCCAGA
 CAAGGTCAAGAACTGCAGTGGCTCCTTCCCTTGTGCTCCAGCTCTGAATAAACCGAAG
 AAACCTCTCACTTCTAGCAGTGCAGCTCCCAGAGGCCCATCTCAACACAGAGAACCCT
 GCGGCTCCTAAGGCTGGCCCTGGTGTGGTGCAGAAAGAACCTGGTGTGGGCAACGGAGAC
 GACGAGGCAGCTGAGTTGATGCAGCAGGTCAACGTATTGAAACCTACTGTTGAAGACTTG
 GAGAAAGAGAGGGATTTCTACTTCGGGAAGCTACGGGACATTGAATTGATTTGCCACGAG
 ACGCAGGGGAAAACGACCCTGTATTGCAGAAGATTGTANACATCTGT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_012325 unedited
 CGCGGCCGCAATCTAGAATCGAGTTTTTTTTTTTTTTTTTTTTTTTACTCTTGAAAACAGAA
 TTTTATTTAGAACTGTTAAAGTAGAAAAAACCCCTGTCAAGAAAGACCAGGTGGAAAA
 TGGGTTCCCAATAAAATGGAATTTTAGGGCAACAAAAGTCTAAAAGGCCACAAAAGAGAA
 ATAGCACCCTGTCAATTTGAACAATGGCTAGTTACTTGCATTTTTTGGCATTGTTAATCA
 CTGAATCTGGGTTTTCTCTGAATTCACACAGAGCATGCACTACACAACATTTTTATCA
 TAAAATACTTGCTTTCTACACACATTTCCAGGACAAGCTACCACCAGAAACAAATCAATAC
 AAATACATCAGGGGCTGAACAATCTCAGTAGTGGGTGAGACACATTTTGCAGAATCCTGC
 CAAACAAAGGAACTGAATAGGCTGTGGGCAAGCAAATGAGGGGAGAGTTAAGGAATGAAG
 TATTTTAAATATTAATAATTAATTCAGACACGGTACTGTATTTTCCGCAAAAAGAAAATTA
 ACATTTAGTAACACACTAATGAATTTTATCTCAAAGAGATTAGTGCCTGGCAAAGTAT
 TCGGATTACAGTGGAGAGCTGTGAACAGCAGATACCGAAAACACCCAGCCTGGCAGATC
 CCAAGGTAACGATGGCCTTCACTGACCACTCCCTTTGCCAGAGGTCCAGAAAGAAGTTC
 AGCATGATCACCTGCCTGCTGCACTTCACTTCACTAGCAGNCAACTTCAAGGAGCCAAAGA
 GGAGTCCCAAGTGGCAAGNGAGCAGAGAGNAAAACGTGNTAANNTGTAACTANAGAC
 AGTAAATGGGNATACATCCCATCCAATCCAGAGATGTGGCAGTCCCAAGTAGTGTAG
 ATAAAACCTGGGCACACTCACTCCCAAAATATATACTAAATTC

Restriction Sites:

NotI-NotI

ACCN:

NM_012325

Insert Size:

2700 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](#)

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_012325.1](#), [NP_036457.1](#)

RefSeq Size: 2540 bp

RefSeq ORF: 807 bp

Locus ID: 22919

UniProt ID: [Q15691](#)

Cytogenetics: 20q11.21

Domains: CH, EB1

Protein Families: Druggable Genome

Gene Summary: The protein encoded by this gene was first identified by its binding to the APC protein which is often mutated in familial and sporadic forms of colorectal cancer. This protein localizes to microtubules, especially the growing ends, in interphase cells. During mitosis, the protein is associated with the centrosomes and spindle microtubules. The protein also associates with components of the dynactin complex and the intermediate chain of cytoplasmic dynein. Because of these associations, it is thought that this protein is involved in the regulation of microtubule structures and chromosome stability. This gene is a member of the RP/EB family. [provided by RefSeq, Jul 2008]