

## Product datasheet for **SC115084**

### EB2 (MAPRE2) (NM\_014268) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	EB2 (MAPRE2) (NM_014268) Human Untagged Clone
Tag:	Tag Free
Symbol:	EB2
Synonyms:	CSCSC2; EB1; EB2; RP1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC115084 sequence for NM_014268 edited (data generated by NextGen Sequencing)

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ATGCCTGGGCCGACCCAAACCCCTGTCCCAAATGGCGAGAACAACAACGACATCATCCAG
GATAATAACGGGACCATCATTCTTTCCGGAAGCACACAGTGCGGGGGAGCGTTCTTAC
AGTTGGGGAATGGCGGTCAATGTGTATTCTACCTCGATAACCCAAGAGACTATGAGCAGA
CATGACATCATTGCATGGGTTAATGACATAGTATCTTTAACTACACAAAAGTGGAAACAG
CTTTGTTCCAGGAGCGCCTATTGCCAATTCATGGACATGCTCTTCCCTGGCTGCATTAGT
TTGAAGAAAGTAAAATTTCAAGCAAAGCTGGAACATGAATATATTCACAATTTTAACTT
CTGCAAGCATCATTTAAGCGAATGAACGTTGATAAGGTAATCCAGTGGAGAAGCTAGTG
AAAGGACGTTTCCAGGACAACCTGGATTTTATTCAATGGTTTAAGAAATCTATGATGCT
AACTACGATGGGAAGGAGTATGATCCTGTAGAGGCACGACAAGGGCAAGATGCAATTCCT
CCTCCTGACCCTGGTGAACAGATCTTCAACCTGCCAAAAAAGTCTCACCATGCAAACCTC
CCCACAGCAGGTGCAGCTAAATCAAGTCCAGCAGCTAAACCAGGATCCACACCTTCTCGA
CCCTCATCAGCCAAAAGGGCTTCTTCCAGTGGCTCAGCATCCAAATCCGATAAAGATTTA
GAAACGCAGGTACATACAGCTTAATGAACAGGTACATTCATTAATAAAGTGGCCCTTGAAGGC
GTGGAAAAGGAAAGGGATTTCTACTTTGGGAAGTTGAGAGAGATCGAGCTACTCTGCCAA
GAACACGGGCAGGAAAATGATGACCTCGTGCAGAGACTAATGGACATCCTGTATGCTTCA
GAAGAACACGAGGGCCACACAGAAGAGCCGGAAGCAGAGGAGCAAGCCCACGAACAGCAG
CCCCCGCAGCAGGAAGAGTACTGA
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Clone variation with respect to NM\_014268.2



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_014268 unedited GGGACGCAGCCACCTTCCTCACCAGCCAGCCACAGCGTTTGTGCCCTTCTCGGGAGT GCGCCAATGCCTGGGCCGACCCAAACCCTGTCCCAAAATGGCGAGAACAACAACGACATC ATCCAGGATAATAACGGGACCATCATTCTTTCCGGAAGCACACAGTGC GCGGGGAGCGT TCCTACAGTTGGGAATGGCGGTCAATGTGTATTCTACCTCGATAACCCAAGAGACTATG AGCAGACATGACATCATTGCATGGGTTAATGACATAGTATCTTTAACTACACAAAAGTG GAACAGCTTTGTTTCAGGAGCGGCCTATTGCCAATTCATGGACATGCTCTCCCTGGCTGC ATTAGTTTGAAGAAAGTAAAATTTCAAGCAAAGCTGGAACATGAATATATTCACAATTTT AAACTTCTGCAAGCATCATTTAAGCGAATGAACGTTGATAAGGTAATTCAGTGGAGAAG CTAGTGAAAGGACGTTTCCAGGACAACCTGGATTTTATTCAATGGTTTAAAGAAATTCAT GATGCTAACTACGATGGGAAGGAGTATGATCCTGTAGAGGCACGACAAGGGCAAGATGCA ATTCTCTCCTGACCCTGGTGAACAGATCTTCAACCTGCCAAAAAAGTCTCACCATGC AAACTCCCCACAGCAGGTGCAGCTAAATCAAGTCCAGCAGCTAAACCAGGATCCACACC TTCTTCGACCCTCATCAGCCAAANGCCTNNTTTCAGTGGCTCAGCATNCAAATCCGATAA AGATTTANAAACGCAGGTATACAGCTTATGGACAGGTACATTCAAATTAAGTGCCTTGG AGGCGNGGAAAAGGAAAGAAATTTACTTTGGAAGTGGNAAAANCGAGCTCTTGCCANA AACGGCAGGAAAGAGACCTCGGC
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_014268
<b>Insert Size:</b>	4500 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_014268.1</a> , <a href="#">NP_055083.1</a>
<b>RefSeq Size:</b>	2578 bp
<b>RefSeq ORF:</b>	984 bp
<b>Locus ID:</b>	10982
<b>UniProt ID:</b>	<a href="#">Q15555</a>
<b>Cytogenetics:</b>	18q12.1-q12.2
<b>Domains:</b>	CH, EB1
<b>Protein Families:</b>	Druggable Genome

**Gene Summary:**

The protein encoded by this gene shares significant homology to the adenomatous polyposis coli (APC) protein-binding EB1 gene family. This protein is a microtubule-associated protein that is necessary for spindle symmetry during mitosis. It is thought to play a role in the tumorigenesis of colorectal cancers and the proliferative control of normal cells. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Jan 2012]  
Transcript Variant: This variant (1) encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.