

## Product datasheet for **SC117049**

### MARK2 (NM\_004954) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MARK2 (NM_004954) Human Untagged Clone
Tag:	Tag Free
Symbol:	MARK2
Synonyms:	EMK-1; EMK1; PAR-1; Par-1b; Par1b
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:**

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>OriGene sequence for NM_004954 edited
GAATTCGGCACGAGGCCATGTCCAGCGCTCGGACCCCCCTACCCACGCTGAACGAGAGGG
ACACGGAGCAGCCCACCTTGGGACACCTTGACTCCAAGCCCAGCAGTAAGTCCAACATGA
TTCGGGGCCGCAACTCAGCCACCTCTGCTGATGAGCAGCCCCACATTGAAAACCTACCGGC
TCCTCAAGACCATTGGCAAGGGTAATTTTGCCAAGGTGAAGTTGGCCCGACACATCTGA
CTGGGAAAGAGGTAGCTGTGAAGATCATTGACAAGACTCAACTGAACTCCTCCAGCTCC
AGAAACTATTCGCGAAGTAAGAATAATGAAGGTTTGAATCATCCCAACATAGTTAAAT
TATTTGAAGTGATTGAGACTGAGAAAACGCTCTACCTTGTGATGAGTACGCTAGTGGCG
GAGAGGTATTTGATTACCTAGTGCTCATGGCAGGATGAAAGAAAAAGAGGCTCGAGCCA
AATTCGCCAGATAGTGTCTGCTGTGCAGTACTGTACCAGAAGTTTATTGTCCATAGAG
ACTTAAAGGCAGAAAACCTGCTCTTGGATGCTGATGAACATCAAGATTGCAGACTTTG
GCTTCAGCAATGAATCACCTTTGGGAACAAGCTGGACACCTTCTGTGGCAGTCCCCCTT
ATGCTGCCCCAGAACTCTCCAGGGCAAAAAATATGATGGACCCGAGGTGGATGTGTGGA
GCCTAGGAGTTATCCTCTATACTGGTACAGCGGATCCCTGCCTTTTGATGGACAGAACC
TCAAGGAGCTGCGGGAACGGGTACTGAGGGGAAAAATACCGTATTCCATTCTACATGTCCA
CGGACTGTGAAAACCTGCCTAAGAAATTTCTATTCTTAATCCCAGCAAGAGAGGCACTT
TAGAGCAAAATCATGAAAGATCGATGGATGAATGTGGGTACGAAGATGATGAACTAAAGC
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TGGGTTATACACGGGAAGAGATCCAGGACTCGCTGGTGGGCCAGAGATACAACGAGGTGA
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CCATTCCACCTTAATTCTTACTCTAAGAAGACTCAGAGTAACAACGCAGAAAAATAAGC
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GCCCCCTGCCCGTCTGGAGAGGAAGAAGACCACCCCAACCCCTCCACGAACAGCGTCC
TCTCCACCAGCACAAATCGAAGCAGGAATCCCCACTTTTGGAGCGGGCCAGCCTCGGCC
AGGCCTCCATCCAGAATGGCAAAGACAGCCTAACCATGCCAGGGTCCCGGGCCTCCACGG
CTTCTGCTTCTGCCGAGTCTCTGCGGCCCGGCCAGCACCAGAAAATCCATGTGCG
CCTCCGTGCACCCCAACAAGGCTCTGGGCTGCCCCACGGAGAGTAAGTGTGAGGTGC
CGCGGCCAGCACAGCCCCAGCGTGTCCCTGTTGCCTCCCCATCCGCCACAACATCA
GCAGCAGTGGTGGAGCCAGACCGAACTAACTCCCCCGGGTGTGTCCAGCCGAAGCA
CCTTCCATGCTGGGACGCTCCGACAGGTGCGGGACCAGCAGAATTTGCCCTACGGTGTGA
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TGGAGACGCTCAGACCTCACGTGGTGGCAGTGGCGGCAACGACAAGAAAAGGAAGAAT
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TGGAGCCCAACGAGATGATGCGGGAGATCCGCAAGGTGCTGGACGCGAACAGCTGCCAGA
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TTAAGCGGATATCGGGACCTCCATGGCCTTCAAAAACATTGCCTCCAAAATAGCCAACG
AGCTGAAGCTTTAACAGGCTGCCAGGAGCGGGGCGCGGGGGCCAGCTGGACGGG
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CCTGCTGGCACTTCTCCCTCCCTGGCCCTTCTCAGTTTTCTTACATGTTTGGGGG
GTGGGAXXXXXXXXXXXXXXXXXXXXXXCCACATTCACCCCTGCCAGAGATCCCCCT
TCTCTCTCCCTACTGGAGCAAAGGAAGGGGAGGGTGGATGGGGGGCAGGGCTCCCC
CTCGGTACTGCGGTTGCACAGATATTTGCCTAAACCAAGAAATTTTTTATTACAAAA
AGAAAAAAAAAAAAAAAAAACTCGAC
    
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_004954 unedited TACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCCATGTCCAGCGCTCGGACCC CCCTACCCACGCTGAACGAGAGGGACACGGAGCAGCCACCTTGGGACACCTTGACTCCA AGCCCAGCAGTAAGTCCAACATGATTCGGGGCCGCAACTCAGCCACCTCTGCTGATGAGC AGCCCCACATTGGAACTACCGCTCCTCAAGACCATTGGCAAGGGTAATTTTCCAAGG TGAAGTTGGCCCCACACATCCTGACTGGGAAAGAGGTAGCTGTGAAGATCATTGACAAGA CTCAACTGAACCTCCAGCCTCCAGAACTATTCCGCGAAGTAAGAATAATGAAGTTTT TGAATCATCCCAACATAGTTAAATTATTTGAAGTGATTGAGACTGAGAAAACGCTCTACC TTGTCATGGAGTACGCTAGTGGCGGAGAGGTATTTGATTACCTAGTGGCTCATGGCAGGA TGAAAGAAAAAGAGGCTCGAGCCAAATTCGCCAGATAGTGTCTGCTGTGCAGTACTGTC ACCAGAAGTTTATTGTCCATAGAGACTTAAAGGCAGAAAACCTGCTTTGGATGCTGATA TGAACATCAAGATTGCAGACTTTGGCTTCAATGAATTCACCTTTGGGAACAAGCTGG ACACCTTCTGTGGCAGTCCCCCTATGCTGCCCCAGATCTTCCAGGGCATAAAATATG ATGGACCCGAGGTGGATGTGTGGAGCCTANNGAGTATCCTCTATACACTGGTCAGCGGAT CCCTGCCTTTTGTGACAGAACCTCAGGAGCTGCGGNAACGGTACTGAGNGAAAAT ACCGTATTTTCATTCTACATGTCCACGGACTGTGAANACCCTGCTAANNGAATTCTCATTC TTATCCCCAGCAGAGAGCACTCTAGAGCAATCATGGAAGATCGATGGATGAATGTGGGTC ACGAANATGATGAACTAAGACCTACGTGGAGCCCTNCCTGACTACAGGACCCCGCNGAAN
<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_004954 unedited CAACCGCAGTACCGAGGGGGAGCCCTGCCCCCATCCACCTCCCTTCCTTTGCCTCC AGTAGGGGAGAGGAGAAGGGGAATCTCTGGGCAGGGTGAATGTGGGGGCTN
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_004954
<b>Insert Size:</b>	2900 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_004954.2</a> , <a href="#">NP_004945.2</a>
<b>RefSeq Size:</b>	2784 bp
<b>RefSeq ORF:</b>	2076 bp
<b>Locus ID:</b>	2011
<b>UniProt ID:</b>	<a href="#">Q7KZ17</a>

<b>Cytogenetics:</b>	11q13.1
<b>Domains:</b>	UBA, pkinase, KA1
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>Gene Summary:</b>	<p>This gene encodes a member of the Par-1 family of serine/threonine protein kinases. The protein is an important regulator of cell polarity in epithelial and neuronal cells, and also controls the stability of microtubules through phosphorylation and inactivation of several microtubule-associating proteins. The protein localizes to cell membranes. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2009]</p> <p>Transcript Variant: This variant (3) lacks two alternate in-frame exons in the 3' coding region and uses an alternate in-frame splice site in the central coding region, compared to variant 4. The resulting isoform (c) lacks two internal segments and 1 internal residue, compared to isoform d. 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.</p>