

## Product datasheet for **SC327986**

### **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:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

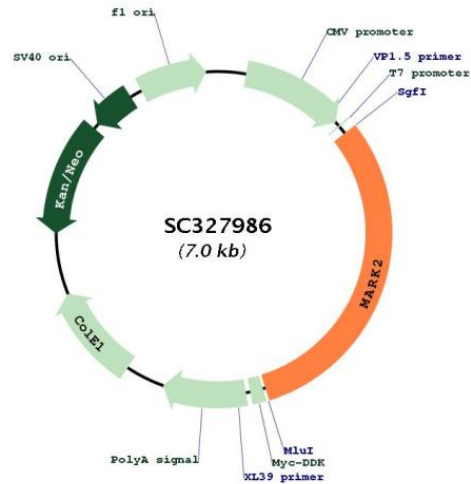


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Fully Sequenced ORF: >SC327986 representing NM\_004954.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
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CGGGAGGCCAAGCCCGCTCCCTCCGCTTACGTGGAGTATGAAGACCACGAGCTCCATGGAGCCCAAC
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ATTGCCTCCAAAATAGCCAACGAGCTGAAGCTTAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI

**Plasmid Map:**


**ACCN:** NM\_004954

**Insert Size:** 2175 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).

**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\\_004954.4](#)

**RefSeq Size:** 4556 bp

**RefSeq ORF:** 2175 bp

**Locus ID:** 2011

**UniProt ID:** [Q7KZ17](#)

<b>Cytogenetics:</b>	11q13.1
<b>Domains:</b>	UBA, pkinase, KA1
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>MW:</b>	81.2 kDa
<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>