

Product datasheet for **SC327188**

MARK2 (NM_001163296) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MARK2 (NM_001163296) Human Untagged Clone
Tag:	Tag Free
Symbol:	MARK2
Synonyms:	EMK-1; EMK1; PAR-1; Par-1b; Par1b
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001163296, the custom clone sequence may differ by one or more nucleotides

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ATGTCCAGCGCTCGGACCCCTACCCACGCTGAACGAGAGGGACACGGAGCAGCCCACC
TTGGGACACCTTGACTCCAAGCCAGCAGTAAGTCCAACATGATTGGGGCCGCAACTCA
GCCACCTCTGCTGATGAGCAGCCCCACATTGAAACTACCGGCTCCTCAAGACATTGGC
AAGGGTAATTTTCCAAAGGTGAAGTTGGCCCGACACATCCTGACTGGGAAAGAGGTAGCT
GTGAAGATCATTGACAAGACTCAACTGAACTCCTCCAGCCTCCAGAACTATTCCGCGAA
GTAAGAATAATGAAGTTTTGAATCATCCAACATAGTTAAATTTTGAAGTGATTGAG
ACTGAGAAAACGCTCTACCTTGTCATGGAGTACGCTAGTGGCGGAGAGGTATTTGATTAC
CTAGTGGCTCATGGCAGGATGAAAGAAAAAGAGGCTCGAGCCAAATTCGCCAGATAGTG
TCTGCTGTGCAGTACTGTACCAGAAGTTTATTGTCCATAGAGACTTAAAGGCAGAAAAC
CTGCTCTGGATGCTGATATGAACATCAAGATTGCAGACTTTGGCTTCAGCAATGAATTC
ACCTTTGGGAACAAGCTGGACACCTTCTGTGGCAGTCCCCCTTATGCTGCCCCAGAACTC
TTCCAGGGCAAAAATATGATGGACCCGAGGTGGATGTGTGGAGCCTAGGAGTTATCCTC
TATACACTGGTCAGCGGATCCCTGCCTTTTGTATGGACAGAACCTCAAGGAGCTGCGGGAA
CGGGTACTGAGGGGAAAAATACCGTATTCCATTCTACATGTCCACGGACTGTGAAAACCTG
CTTAAGAAATTTCTATTCTTAATCCCAGCAAGAGAGGCACTTTAGAGCAATCATGAAA
GATCGATGGATGAATGTGGGTACGAAGATGATGAACTAAAGCCTTACGTGGAGCCACTC
CCTGACTACAAGGACCCCGGCGGACAGAGCTGATGGTGTCCATGGGTTATACACGGGAA
GAGATCCAGGACTCGCTGGTGGGCCAGAGATACAACGAGGTGATGGCCACCTATCTGCTC
CTGGGCTACAAGAGCTCCGAGCTGGAAGGCGACACCATCACCTGAAACCCCGCCTTCA
GCTGATCTGACCAATAGCAGCGCCCCATCCCCATCCCACAAGGTACAGCGCAGCGTGTG
GCCAATCCCAAGCAGCGCGCTTCAGCGACCAGGCAGCTGGTCTGCCATTCCCACCTCT
AATTCTTACTCTAAGAAGACTCAGAGTAACAACGCAGAAAATAAGCGGCCTGAGGAGGAC
CGGGAGTCAGGGCGGAAAGCCAGCAGCAGCCAAAGGTGCCTGCCAGCCCCCTGCCCGGT
CTGGAGAGGAAGAAGACCACCCCAACCCCTCCACGAACAGCGTCTCTCCACCAGCACA
AATCGAAGCAGGAATTTCCCACTTTTGGAGCGGGCCAGCCTCGGCCAGGCCTCCATCCAG
AATGGCAAAGACAGCACAGCCCCCAGCGTGTCCCTGTTGCCATCCCAATCCGCCACAAC
ATCAGCAGCAGTGGTGGAGCCCCAGACCGAACTAATTTCCCGGGGTGTGTCCAGCCGA
AGCACCTTCCATGCTGGCAGCTCCGACAGGTGCCGGACCAGCAGAAATTTGCCCTACGGT
GTGACCCAGCCTCTCCCTCTGGCCACAGCCAGGCGCGGGGGCCTCTGGGAGCATC
TTCAGCAAGTTACCTCCAAGTTTGTACGCAGAAATCTGTCTTTCAGTTTGCCAGAAGA
CCTCACGTGGTGGCAGTGGCGGCAACGACAAAAGAAAAGGAAGAAATTTCCGGAGGCCAAG
CCCCGCTCCCTCCGCTTACGTGGAGTATGAAGACCACGAGCTCCATGGAGCCCAACGAG
ATGATGCGGGAGATCCGCAAGGTGCTGGACGCGAACAGCTGCCAGAGCGAGCTGCATGAG
AAGTACATGCTGCTGTGCATGCACGGCACGCGGGCCACGAGGACTTCGTGCAGTGGGAG
ATGGAGGTGTGCAAACCTGCCCGGCTCTCTCTCAACGGGGTTCGATTTAAGCGGATATCG
GGCACCTCCATGGCCTTCAAAAACATTGCCTCCAAAATAGCCAACGAGCTGAAGCTT

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Restriction Sites: Please inquire

ACCN: NM_001163296

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:	<ol style="list-style-type: none">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:	<u>NM_001163296.1</u> , <u>NP_001156768.1</u>
RefSeq Size:	4541 bp
RefSeq ORF:	2160 bp
Locus ID:	2011
UniProt ID:	<u>Q7KZ17</u>
Cytogenetics:	11q13.1
Protein Families:	Druggable Genome, Protein Kinase
Gene Summary:	<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-associated 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 (5) lacks two alternate in-frame exons in the 3' coding region, compared to variant 4. The resulting isoform (e) lacks two internal segments, 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>