

Product datasheet for **RC228553**

MARK2 (NM_001163296) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MARK2 (NM_001163296) Human Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide Sequence:

>RC228553 representing NM_001163296
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTCCAGCGCTCGGACCCCTACCCAGCTGAACGAGAGGGACACGGAGCAGCCACCTTGGGACACC
 TTGACTCCAAGCCAGCAGTAAGTCCAACATGATTCGGGGCCGCAACTCAGCCACCTCTGCTGATGAGCA
 GCCCACATTGGAACTACCGGCTCCTCAAGACATTGGCAAGGGTAATTTTCCAAAGGTGAAGTTGGCC
 CGACACATCTGACTGGGAAAGAGGTAGCTGTGAAGATCATTGACAAGACTCAACTGAACTCTCCAGCC
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
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Protein Sequence: >RC228553 representing NM_001163296
Red=Cloning site Green=Tags(s)

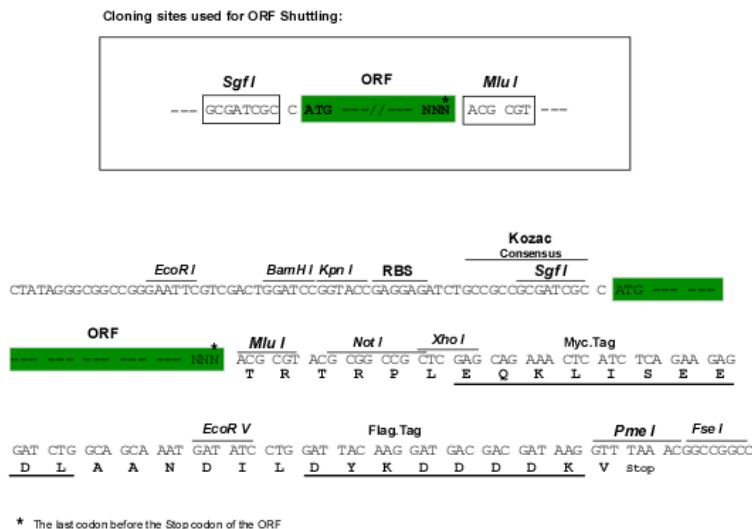
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 YNEVMATYLLLGYSSELEGDTITLKPRPSADLTNSSAPSPSHKVQSVSANPKQRRFSDQAAGPAIPT
 NSYSKKTQSNNAENKRPEEDRESGRKASSTAKVPASPLGLERKKTPTPTSTNSVLSTSTNRSRNSPLLE
 RASLGQASIQNGKDSTAPQRPVAVSASAHNIISSSGGAPDRTNFPRGVSSRSTFHAGQLRQVRDQNL PYG
 VTPASPSGHSQGRRGASGSIFSFTSKFVRRNLSFRFARRPHVVGSGNDKEEKFREAKPRSLRF TWSM
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 GTSMAFKNIASKIANELKL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001163296

ORF Size: 2157 bp

OTI Disclaimer: 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001163296.2](#)

RefSeq ORF: 2160 bp

Locus ID: 2011

UniProt ID: [Q7KZ17](#)

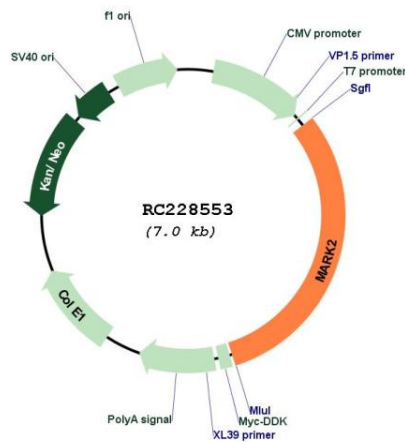
Cytogenetics: 11q13.1

Protein Families: Druggable Genome, Protein Kinase

MW: 80.5 kDa

Gene Summary: 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]

Product images:



Circular map for RC228553