

Product datasheet for **SC337442**

MARK1 (NM_001286126) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MARK1 (NM_001286126) Human Untagged Clone
Tag:	Tag Free
Symbol:	MARK1
Synonyms:	MARK; Par-1c; Par1c
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001286126, the custom clone sequence may differ by one or more nucleotides

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ATGTCGGCCCGGACGCCATTGCCGACGGTGAACGACGGGACACGAAAAATCATACATCTGTGGATGGAT
ATACTGAACCACACATCCAGCCTACCAAGTCGAGTAGCAGACAGAACATCCCCGGTGTAGAACTCCAT
TAGTTCAGCAACAGATGAACAGCCTCACATTGAAATTACCGTTACAAAAACAATAGGGAAGGGAAAT
TTTGCCAAAGTCAAATTGGCAAGACACGTTCTAACTGGTAGAGAGGTTGCTGTGAAAAATAATAGACAAA
CTCAGCTAAATCTACCAGTCTACAAAAGTTATTTGAGAAAGTACGAATAATGAAGATACTGAATCATCC
TAATATAGTAAAAATTGTTGAAGTTATTGAAACAGAGAAGACTCTCTATTTAGTCATGGAATACGCGAGT
GGGGGTGAAGTATTTGATTACTTAGTTGCCATGGAAGAATGAAAGAGAAAAGAGGCCCGTGCAAAATTTA
GGCAGATTGTATCTGCTGTACAGTATTGTCATCAAAAAGTACATTGTTACCCGTGATCTTAAGGCTGAAA
CCTTCTCCTTGATGGTGATATGAATATTAATAATGCTGACTTTGGTTTTAGTAATGAATTTACAGTTGGG
AACAAATTGGACACATTTTGGGAAGCCCACCCTATGCTGCTCCCGAGCTTTTCCAAGGAAAGAAGTATG
ATGGGCCGTAAGTGGATGTGTGGAGTCTGGGCGTCATTCTCTATACATTAGTCAGTGGCTCCTTGCCTTT
CGATGGCCAGAATTTAAAGGAACTGCGAGAGCGAGTTTTACGAGGGAAGTACCGTATTCCCTTCTATATG
TCCACAGACTGTGAAAATCTTCTGAAGAAATTATTAGTCCTGAATCCAATAAAGAGAGGCAGCTTGGAAC
AAATAATGAAAGATCGATGGATGAATGTTGGTCATGAAGAGGAAGAACTAAAGCCATATACTGAGCCTGA
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AATTTGAAGGTGGTGAATCGTTATCCAGTGGAACTTGTGTCAGAGGTCCCGGCCAGTAGTGACTTAAA
CAACAGCACTCTTCAGTCCCCTGCTCACCTGAAGGTCCAGAGAAGTATCTCAGCAATCAGAAGCAGCGG
CGTTTCAGTGATCATGCTGGTCCATCCATTCTCCTGCTGTATCATATACCAAAAGACCTCAGGCTAACA
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ATCAAAAAGCGAGATGACTGCAAGCCCTTGTAGGGCCAGAGAGAAAAAATCTCAACTATTCCAAGT
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ACGTAGCATTGCAGAAATGGAAGAGACAGCAGCCTTACGGAGATGTCTGTGAGTAGCATATCTTCTGCAGG
CTCTTCTGTGGCCTCTGCTGTCCCCTCAGCAGGACCCCGCCACCAGAAGTCCATGTCCACTTCTGGTCAT
CCTATTAAGTCACTGCCAACCATTAAGACGGCTCTGAAGCTTACCGCCTGGTACAACCCAGAGAG
TGCTGCTGCTTCCCCTCTGCTCACAGTATTAGTACTGCGACTCCAGACCGGACCCGTTTTCCCGAGG
GAGCTCAAGCCGAAGCACTTTCCATGGTGAACAGCTCCGGGAGCGACGCAGCGTTGCTTATAATGGGCCA
CCTGCTTACCATCCCATGAAACGGGTGCATTTGCACATGCCAGAAGGGGAACGTCAACTGGTATAATAA
GCAAAATCACATCCAAATTTGTTTCGAGAAATACATCAGGGGAACCAAAAGAAAGAGACAAGGAAGAGGG
TAAAGATTCTAAGCCGCTTCTTTGCGGTTACATGGAGTATGAAGACCACTAGTTCAATGGACCCTAAT
GACATGATGAGAGAAATCCGAAAAGTGTAGATGCAAAATAACTGTGATTATGAGCAAAAAGAGAGATTTT
TGCTTTTCTGTGTCCATGGAGACGCTAGACAGGATAGCCTCGTGCAGTGGGAGATGGAAGTCTGCAAGTT
GCCACGACTGTCACTTAATGGGGTTCGCTTCAAGCGAATATCTGGGACATCTATTGCCTTAAAGAACATT
GCATCAAAAATAGCAATGAGCTTAAGCTGTA
    
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Restriction Sites: SgfI-MluI

ACCN: NM_001286126

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).

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_001286126.1</u> , <u>NP_001273055.1</u>
RefSeq Size:	5291 bp
RefSeq ORF:	2343 bp
Locus ID:	4139
Cytogenetics:	1q41
Protein Families:	Druggable Genome, Protein Kinase
Gene Summary:	<p>Serine/threonine-protein kinase (PubMed:23666762). Involved in cell polarity and microtubule dynamics regulation. Phosphorylates DCX, MAP2 and MAP4. Phosphorylates the microtubule-associated protein MAPT/TAU (PubMed:23666762). Involved in cell polarity by phosphorylating the microtubule-associated proteins MAP2, MAP4 and MAPT/TAU at KXGS motifs, causing detachment from microtubules, and their disassembly. Involved in the regulation of neuronal migration through its dual activities in regulating cellular polarity and microtubule dynamics, possibly by phosphorylating and regulating DCX. Also acts as a positive regulator of the Wnt signaling pathway, probably by mediating phosphorylation of dishevelled proteins (DVL1, DVL2 and/or DVL3).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (3) uses an alternate splice site and lacks an exon in the 3' coding region but maintains the reading frame, compared to variant 1. This results in a shorter protein (isoform 3), compared to 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.</p>