

## Product datasheet for **SC323178**

### MARK3 (NM\_001128920) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MARK3 (NM_001128920) Human Untagged Clone
Tag:	Tag Free
Symbol:	MARK3
Synonyms:	CTAK1; KP78; Par-1a; PAR1A; VIPB
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:** >OriGene ORF within SC323178 sequence for NM\_001128920 edited (data generated by NextGen Sequencing)

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ATGTCCACTAGGACCCCATTTGCCAACGGTGAATGAACGAGACACTGAAAACACACGTGACATGGAGATG
GGCGTCAAGAAGTTACCTCTCGTACCAGCCGCTCAGGAGCTCGGTGTAGAACTCTATAGCCTCCTGTGC
AGATGAACAACCTCACATCGGAACTACAGACTGTTGAAAACAATCGGCAAGGGGAATTTGCAAAAAGTA
AAATTGGCAAGACATATCCTTACAGGCAGAGAGTTGCAATAAAAAATAATTGACAAAACAGTTGAATC
CAACAAGTCTACAAAAGCTCTTACAGAGAAGTAAGAATAATGAAGATTTTAAATCATCCCAATATAGTGAA
GTTATTGGAAGTCAATGAACTGAAAAACACTTACCTAATCATGGAATATGCAAGTGGAGGTGAAGTA
TTTGACTATTTGGTTGCACATGGCAGGATGAAGGAAAAAGAAGCAAGATCTAAATTTAGACAGATTGTGT
CTGCAGTTCAATACTGCCATCAGAAACGGATCGTACATCGAGACCTCAAGGCTGAAAATCTATTGTTAGA
TGCCGATATGAACATTAAGTAGCAGATTTGCGTTTTAGCAATGAATTTACTGTTGGCGGTAACCTCGAC
ACGTTTTGTGGCAGTCTCCATACGCAGCACCTGAGCTCTCCAGGGCAAGAAATATGACGGGCCAGAAG
TGGATGTGTAGAGTCTGGGGTCAATTTATACACTAGTCAGTGGCTCACTTCCCTTTGATGGGCAAAA
CCTAAAGGAACTGAGAGAGAGATTAAGAGGGAAATACAGAATTCCTTCTACATGTCTACAGACTGT
GAAAACCTTCTCAACGTTTCTGGTGCTAAATCCAATTAACCGCGGCACTCTAGAGCAATCATGAAGG
ACAGGTGGATCAATGCAGGGCATGAAGAAGATGAACTCAAACATTTGTTGAACCAGAGCTAGACATCTC
AGACCAAAAAAGAATAGATATTATGGTGGGAATGGGATATTCACAAGAAGAAATTCAGAATCTCTTAGT
AAGATGAAATACGATGAAATCACAGCTACATATTTGTTATTGGGGAGAAAATCTCAGAGGTTAGGCCGA
GCAGTGATCTCAACAACAGTACTGGCCAGTCTCCTCACCACAAAGTGCAGAGAAGTGTCTTCAAGCCA
AAAGCAAAGACGCTACAGTGACCATGCTGGACCAGCTATTCCTTCTGTTGTGGCGTATCCGAAAAGGAGT
CAGACCAGCACTGCAGATAGTGACCTCAAAGAAGATGGAATTTCTCCCGGAAATCAAGTGGCAGTGCTG
TTGGAGGAAAGGGAATTGCTCCAGCCAGTCCCATGCTTGGGAATGCAAGTAATCCTAATAAGCGGATAT
TCTGAACGCAAGAAAAGCTCCACTGTCCCTAGTAGTAACACAGCATCTGGTGGAAATGACACGACGAAAT
ACTTATGTTTGCAGTGAGAGAACTACAGCTGATAGACACTCAGTGATTCAGAATGGCAAAGAAAACAGCA
CTATTCTGATCAGAGAACTCCAGTTGCTTCAACACACAGTATCAGTAGTGCAGCCACCCAGATCGAAT
CCGCTTCCCAAGAGGCACTGCCAGTCGTAGCACTTTCCACGGCCAGCCCCGGGAACGGCAACCCGCAACA
TATAATGGCCCTCTGCCTCTCCAGCCTGTCCCATGAAGCCACACCATTGTCCAGACTCGAAGCCGAG
GCTCCACTAATCTCCTTAGTAAATTAACCTCAAACTCACAAGGAGTCGCAATGTATCTGCTGAGCAAAA
AGATGAAAACAAAGAAGCAAAGCCTCGATCCCTACGCTTACCTGGAGCATGAAAACCACTAGTTCAATG
GATCCCGGGGACATGATGCGGGAAATCCGCAAAGTGTGGACGCCAATAACTGCGACTATGAGCAGAGGG
AGCGCTTCTTGCTCTTCTGCGTCCACGGAGATGGGCACGCGGAGAACCTCGTGCAGTGGGAAATGGAAGT
GTGCAAGCTGCCAAGACTGTCTCTGAACGGGGTCCGGTTTAAGCGGATATCGGGGACATCCATAGCCTTC
AAAAATATTGCTTCCAAAATTGCCAATGAGCTAAAGCTGTA
    
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Clone variation with respect to NM\_001128920.2  
710:a=>g 1765:c=>t

- Restriction Sites:** Please inquire
- ACCN:** NM\_001128920
- Insert Size:** 2500 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:** The ORF of this clone has been fully sequenced and found to be a perfect match to NM\_001128920.1.

<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>	<u><a href="#">NM_001128920.1</a></u> , <u><a href="#">NP_001122392.1</a></u>
<b>RefSeq Size:</b>	3426 bp
<b>RefSeq ORF:</b>	2142 bp
<b>Locus ID:</b>	4140
<b>UniProt ID:</b>	<u><a href="#">P27448</a></u>
<b>Cytogenetics:</b>	14q32.32-q32.33
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>Gene Summary:</b>	<p>The protein encoded by this gene is activated by phosphorylation and in turn is involved in the phosphorylation of tau proteins MAP2 and MAP4. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2011]</p> <p>Transcript Variant: This variant (4) lacks two alternate in-frame exons and uses an alternate in-frame splice junction at the 5' end of an exon compared to variant 1. The resulting isoform (d) has the same N- and C-termini but is shorter compared to isoform a.</p>