

Product datasheet for **SC118703**

MARK3 (NM_002376) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MARK3 (NM_002376) Human Untagged Clone
Tag:	Tag Free
Symbol:	MARK3
Synonyms:	CTAK1; KP78; Par-1a; PAR1A; VIPB
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene ORF sequence for NM_002376 edited
ATGTCCACTAGGACCCCATTTGCCAACGGTGAATGAACGAGACACTGAAAACACACGTCA
CATGGAGATGGGCGTCAAGAAGTTACCTCTCGTACCAGCCGCTCAGGAGCTCGGTGTAGA
AACTCTATAGCCTCCTGTGCAGATGAACAACCTCACATCGGAAACTACAGACTGTTGAAA
ACAATCGGCAAGGGGAATTTTGCAAAAGTAAAATTGGCAAGACATATCCTTACAGGCAGA
GAGGTTGCAATAAAAAATAATTGACAAAACCTCAGTTGAATCCAACAAGTCTACAAAAGCTC
TTCAGAGAAGTAAGAATAATGAAGATTTTAAATCATCCCAATATAGTGAAGTTATTCGAA
GTCATTGAAACTGAAAAACACTCTACCTAATCATGGAATATGCAAGTGGAGGTGAAGTA
TTTGACTATTTGGTTGCACATGGCAGGATGAAGGAAAAAGAAGCAAGATCTAAATTTAGA
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GCTGAAAATCTATTGTTAGATGCCGATATGAACATTAATAAGCAGATTTTCGGTTTTAGC
AATGAATTTACTGTTGGCGGTAAACTCGACACGTTTTGTGGCAGTCTCCATACGCAGCA
CCTGAGCTCTCCAGGGCAAGAAATATGACGGGCCAGAAGTGGATGTGTGGAGTCTGGGG
GTCATTTTATACACACTAGTCAGTGGCTCACTTCCCTTTGATGGGCAAAACCTAAAGGAA
CTGAGAGAGAGAGTATTAAGAGGGAAATACAGAATTCCTTCTACATGTCTACAGACTGT
GAAAACCTTCTCAAACGTTTCTGGTGCTAAATCCAATTAACCGGGCACTCTAGAGCAA
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TATTTGTTATTGGGGAGAAAAATCTCAGAGCTGGATGCTAGTGATTCCAGTTCTAGCAGC
AATCTTTCACTTGCTAAGGTTAGGCCGAGCAGTGATCTCAACAACAGTACTGGCCAGTCT
CCTCACCACAAAGTGCAGAGAAGTGTCTTCAAGCCAAAAGCAAAGACGCTACAGTGAC
CATGCTGGACCAGCTATTCCTTCTGTTGTGGCGTATCCGAAAAGGAGTCAGACCAGCACT
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ACACACAGTATCAGTAGTGCAGCCACCCAGATCGAATCCGCTTCCCAAGAGGCACTGCC
AGTCGTAGCACTTCCACGGCCAGCCCCGGGAACGGCGAACCGCAACATATAATGGCCCT
CCTGCCTCTCCAGCCTGTCCCATGAAGCCACACCATTGTCCCAGACTCGAAGCCGAGGC
TCCACTAATCTCTTAGTAAATTAACCTCAAACACTCACAAGGAGTCGCAATGTATCTGCT
GAGCAAAAAGATGAAAACAAAGAAGCAAAGCCTCGATCCCTACGTTTACCTGGAGCATG
AAAACCACTAGTTCAATGGATCCCGGGGACATGATGCGGGAAATCCGCAAAGTGTGGAC
GCCAATAACTGCGACTATGAGCAGAGGGAGCGCTTCTTGCTCTTCTGCGTCCACGGAGAT
GGGCACGCGGAGAACCTCGTGCAGTGGGAAATGGAAGTGTGCAAGCTGCCAAGACTGTCT
CTGAACGGGGTCCGGTTTAAAGCGGATATCGGGGACATCCATAGCCTTCAAAAATATTGCT
TCCAAAATTGCCAATGAGCTAAAGCTGTAA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002376 unedited
 NTTTTAAACCCCGCCCGTTGGCGCAAAGGGCGGTAGGCGTGTACGGTGGGAGGTCTATA
 TAAGCAGAGCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGC
 CGCGAATTCGGCACCCAGCCACGGCGCCTTTTCGGAAGTGGCGTGGACTCGAGGACGCTGG
 TCGCCGGCCTCTAGGGCTGTGCTGTTTTGTTTTGACCCTCGCATTGTGCAGAATTAAG
 TGCAGTAAATGTCCACTAGGACCCATTGCCAACGGTGAATGAACGAGACACTGAAAAC
 CACACGTACATGGAGATGGCGTCAAGAAGTTACCTCTCGTACCAGCCGCTCAGGAGCT
 CGGTGTAGAACTCTATAGCCTCCTGTGCAGATGAACAACCTCACATCGGAACTACAGA
 CTGTTGAAAACAATCGGCAAGGGGAATTTTGCAAAAGTAAAATTGGCAAGACATATCCTT
 ACAGGCAGAGAGGTTGCAATAAAAAATAATTGACAAAACACTAGTTGAATCCAACAAGTCTA
 CAAAAGCTCTTCAGAGAAGTAAGAATAATGAAGATTTTAAATCATCCCAATATAGTGAAG
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 GGTGAAGTATTTGACTATTTGGTGCACATGGCAGGATGAAGGAAAAAGAAGCAAGATCT
 AAATTTAGACAGATTGTGCTGCAGTTCAACTGCCATCAGAAACGGATCGTACATCGA
 GACCTCAAGGCTGANAATCTATTGTTAGATGCCGATATGAACATTAATAAGCAGATTTT
 GGTTTTAGCAATGAATTTACTGTTGGCGTAAACTCGACACGTTTTGTGGCAGTCTCC
 TA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_002376 unedited
 AATGTGGCTCANACTTCCATTTATGATTTAGTAANAGCAGACGTTATTGCCTAATATTAT
 TCTATACATTTCCATCAGTGTTCCAGGAAAACACTTTAATTGCTACTTAATTTACATCATA
 ATCACTGGGTTACAGCTTAGCTCATTGGCAATTTTGGAAAGCAATATTTTGAAGGCTAT
 GGATGTCCCCGATATCCGCTTAAACCGGACCCCGTTCATATTCAGTCTTGGCAGCTTGCA
 CACTTCCATTTCCCACTGCACGAGGTTCTCCGCGTGCCCATCTCCGTGGACGCAGAAGAG
 CAAGAAGCGCTCCCTCTGCTCATAGTCGCAGTTATTGGCGTCCAACACTTTGCGGATTTT
 CCGCATCATGTCCCCGGGATCCATTGAACTAGTGGTTTTTTCATGCTCCAGGTGAAGCGTAG
 GGATCGAGGCTTTGCTTCTTTGTTTTTCTTTTTGCTCAGCAGATACATTGCGACTCCT
 TGTGAGTTTTGAAGTTAATTTACTAAAGAGATTAGTGGAGCCTCGGCTTCGAGTCTGGGA
 CANTGGTGTGGCTTCATGGGACAGGCTGAGAGAGGCAGGAGGGCCATTATATGGTGGGT
 TCGCCGTTCCCGAGCTGGCCGTGGAAAGGCTACGAGTGGGATTGCCTTTTGAAGAAGCA
 ATCCAATCTGGGTGGGTGCACTACTGTAAGTGAAGCGACTGGGATTCCACGAT
 CAGAAAAATGCTGGATACTTTGGCTGTCGGAATACGGGAGGGCGAAACCGTGTGGTTTAC
 CACAGGCAAGGAGAGATTGGGAGGGGCAACACCATCTATGACTGGTTCCACTTCAAAGA
 TGGAAATGTTTTTAGCGGGAAGGGAGCGACCCGGACCGAGCCGTGGACTTCCCGCTGGT
 CCGGCCCGCG

Restriction Sites:

NotI-NotI

ACCN:

NM_002376

Insert Size:

3810 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).

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_002376.4](#), [NP_002367.4](#)

RefSeq Size: 3404 bp

RefSeq ORF: 2190 bp

Locus ID: 4140

UniProt ID: [P27448](#)

Cytogenetics: 14q32.32-q32.33

Domains: UBA, pkinase, TyrKc, KA1, S_TKc

Protein Families: Druggable Genome, Protein Kinase

Gene Summary: 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]
Transcript Variant: This variant (3) lacks two alternate in-frame exons compared to variant 1. The resulting isoform (c) has the same N- and C-termini but is shorter compared to isoform a.