

Product datasheet for **SC107258**

MARK4 (NM_031417) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MARK4 (NM_031417) Human Untagged Clone
Tag:	Tag Free
Symbol:	MARK4
Synonyms:	MARK4L; MARK4S; MARKL1; MARKL1L; PAR-1D
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_031417, the custom clone sequence may differ by one or more nucleotides

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ATGTCTTCGCGGACGGTGTGGCCCCGGGCAACGATCGGAACTCGGACACGCATGGCACCTTGGGCAGTG
GCCGCTCCTCGGACAAAGGCCCGTCTGGTCCAGCCGCTCACTGGGTGCCGTTGCCGAACTCCATCGC
CTCCTGTCCCAGGAGCAGCCCCACGTGGGCAACTACCGCCTGCTGAGGACCATTGGGAAGGGCACTTT
GCCAAAGTCAAGCTGGCTCGGCACATCCTCACTGGTCCGGAGGTTGCCATCAAGATTATCGACAAAACCC
AGCTGAATCCCAGCAGCCTGCAGAAGCTGTTCCGAGAAGTCCGCATCATGAAGGGCTAAACCACCCCAA
CATCGTGAAGCTCTTTGAGGTGATTGAGACTGAGAAGACGCTGTACCTGGTGATGGAGTACGCAAGTGCT
GGAGAAGTGTGGTACTACCTCGTGTGCATGGCCGCATGAAGGAGAAGGAAGCTCGAGCCAAGTCCGCAC
AGATTGTTTCGGCTGTGCACTATTGTCACCAGAAAAATATTGTACACAGGGACCTGAAGGCTGAGAACCT
CTTGCTGGATGCCGAGGCCAACATCAAGATTGCTGACTTTGGCTTCAGCAACGAGTTCACGCTGGGATCG
AAGCTGGACACGTTCTGCGGGAGCCCCCATATGCCGCCCGGAGCTGTTTCAGGGCAAGAAGTACGACG
GGCCGGAGGTGGACATCTGGAGCCTGGGAGTCATCCTGTACACCCTCGTCAGCGGCTCCCTGCCCTTCGA
CGGGCACAACTCAAGGAGCTGCCGGAGCGAGTACTCAGAGGGAAGTACCGGGTCCCTTTCTACATGTCA
ACAGACTGTGAGAGCATCCTGCGGAGATTTTTGGTGTGAACCCAGCTAAACGCTGTACTCTCGAGCAAA
TCATGAAAGACAAATGGATCAACATCGGCTATGAGGGTGAGGAGTTGAAGCCATACACAGAGCCCGAGGA
GGACTTCGGGGACACCAAGAGAATTGAGGTGATGGTGGGTATGGGCTACACACGGGAAGAAATCAAAGAG
TCCTTGACCAGCCAGAAGTACAACGAAGTGACCGCCACCTACCTCCTGCTGGGCAGGAAGACTGAGGAGG
GTGGGGACCGGGGCGCCCAGGGCTGGCCCTGGCACGGGTGCGGGGCGCCAGCGACACCACCAACGGAAC
AAGTTCAGCAAAGGCACCAGCCACAGCAAAGGGCAGCGGAGTTCCTCTTCCACCTACCACCGCCAGCGC
AGGCATAGCGATTTCTGTGGCCATCCCCTGCACCCCTGCACCCCAACGCAGCCGACGACGACGCGGGG
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AGGGCTGCCCCCTCCAGCCCATGGTCAAGCAGCGCCACAACCCCAACAAGGCAGAGATCCCAGAGCGG
CGGAAGGACAGCAGCAGCACCCCAACAACCTCCCTCCTAGCATGATGACCCGAGAAACACCTACGTTT
GCACAGAACGCCCGGGGCTGAGCGCCCGTCACTGTTGCCAAATGGGAAAGAAAACAGCTCAGGCACCCC
ACGGGTGCCCCCTGCCTCCCTCCAGTCACAGCCTGGCACCCCATCAGGGGAGCGGAGCCGCTGGCA
CGCGGTTCCACCATCCGACGACCTTCCATGGTGGCCAGGTCCGGGACCGCGGGCAGGGGTGGGGGTG
GTGGGGGTGTGCAGAATGGGCCCTGCCTCTCCACACTGGCCCATGAGGCTGCACCCCTGCCCGCCGG
GCGGCCCGCCACCACCAACCTTTCAACAAGCTGACCTCAAACCTGACCCGAAGGGTTACCCTCGAT
CCCTCTAAACGGCAGAATCTAACCCTGTGTTTCGGGCGCCTCTCTGCCCCAGGGATCCAAGATCAGGT
CGCAGACGAACCTGAGAGAATCGGGGACCTGAGGTCAACAAGTGCCATCTACCTTGGGATCAAACGGAA
ACCGCCCCCGGCTGCTCCGATCCCTGGAGTGTGA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_031417 unedited
 CCGTTTTTCGGGCAGTGNCTGGCCCCGGTTCAACNTNCGGNAACTCGCCACGCATGGCAC
 CTTGGGCAGTGGCCGCTCCTCGGNCAAAGGCCCGTCTGGTCCAGCCGCTCACTGGGTGC
 CCGTTGCCGGAATCCATCGCCTCCTGTCCCGAGGAGCAGCCCCACGTGGGCAACTACCG
 CCTGCTGAGGACCATTGGGAAGGGCAACTTTGCCAAAGTCAAGCTGGCTCGGCACATCCT
 CACTGGTCGGGAGGTTGCCATCAAGATTATCGACAAAACCCAGCTGAATCCCAGCAGCCT
 GCAGAAGCTGTTCCGAGAAGTCCGCATCATGAAGGGCCTAAACCACCCCAACATCGTGAA
 GCTCTTTGAGGTGATTGAGACTGAGAAGACGCTGTACCTGGTGATGGAGTACGCAAGTGC
 TGGAGAAGTGTGGACTACCTCGTGTGCGATGGCCGCATGAAGGAGAAGGAAGCTCGAGC
 CAAGTTCGACAGATTGTTTCGGCTGTGCACTATTGTCACCAGAAAAATATTGTACACAG
 GGACCTGAAGGCTGAGAACCTCTTGCTGGATGCCGAGGCCAACATCAAGATTGCTGACTT
 TGGCTTCAGAACGAGTTCACGCTGGGATCGAAGCTGGACACGTTCTGCGGGAGCCCCC
 ATATGCCGCCCGGAGCTGTTTCAGGGCAAGAAGTACGACGGCCGGGAGTGGACATCTG
 GAGCCTGGGAGTCATCCTGTACACCCTCGTCAGCGGCTCCCTGCCCTTCGACGGGCACAA
 CCTCAAAGAGCTGCGGGAGCGAGTACTCAGAGGGAAGTACGGGGTCCCTTTCTACATGTC
 AACAGACTGTGAGAGCATCCTGCGGAGAATTTTGGTGCTGAACCCAGCTAAACGCTGTAC
 TCTCGAGCAATCATGAAAGACAATGGAT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_031417 unedited
 NNAAATTACTIONACCGCCGCTTTNANNGATCGGTTTTTTTTTTTTTTTTTTTTTTTTTTT
 GGGGAGGGGGGACTCTCTTAAATTATTGGCAACAGGCTGCAGGTGAGGGGGCTGACAG
 GAGGAGGGTGGGGTGTAAATAACTTAAAAACCGTAGGTGACAGCGCAGCTCCTCAAGAG
 ACCTTTGCAGAGGGGAGGGTGTGGGGTATTTACAAGATTTGTACAAAGTCCCCCGGCC
 AGCCTGGGGCAGGAAGTGGGGTGTGAGCGTGAGGGGACGGGAGGGGAAGGAATCTGCCT
 CTCTGACCCCACTCCCAGTCCCCCAGATTCTCCAGTCTTTAGGCTCAGCAGCTCTCCCT
 GCCCTGCCCAAGGCCTAATTTTGAAGTGTGGGAGGAATGGAAGATTTCTCAGTTTCC
 CTCCCTGCCCTGCCCTGTCCCCAAAGTCTCCTCAGGTGCCCTCTTGGTAGGGCAGGGGA
 GGACAGGACTGGCTGGAGGCTCCAGGAAGGTGCCAGCTCCCCCGCTGAGCCCCCTCATC
 CTTCTTGTGTGAGCGGCCCCAGAGAACAGCAGAGGGGACAATCTTTGCCCCAAATA
 TAATTCANGGAACTGAGGTGATGATAAAGGGAGAATCCCTCCCTGGCCCTTCCCTC
 CTGTAGAAGTGAANGCGACAAGGGAGAAGGAAGATAAGGGCCCTGGGGACCGTGGTGCC
 TCAGAGCTCGAGGTGTTTTGAAGATGCGGGTGACAAGGGTGCCGAAGGCCAGGGCGGTGC
 CCGCCACACCGCGGAAGAGAACTCCCCGCAAGCCTGGCCCGGGCAGCTTGGCAAACCTCC
 ACTCAAATTGGGACAAGGGCTTGGGGCCCCGCCGACCCCGTGCAGGCAGGCCCAACA
 GAAACGGTTTGGGCTGGCGGCCACCGGCC

Restriction Sites:

Please inquire

ACCN:

NM_031417

Insert Size:

5000 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_031417.2](#), [NP_113605.2](#)

RefSeq Size: 4917 bp

RefSeq ORF: 2067 bp

Locus ID: 57787

UniProt ID: [Q96L34](#)

Cytogenetics: 19q13.32

Protein Families: Druggable Genome, Protein Kinase

Gene Summary: This gene encodes a member of the microtubule affinity-regulating kinase family. These protein kinases phosphorylate microtubule-associated proteins and regulate the transition between stable and dynamic microtubules. The encoded protein is associated with the centrosome throughout mitosis and may be involved in cell cycle control. Expression of this gene is a potential marker for cancer, and the encoded protein may also play a role in Alzheimer's disease. Pseudogenes of this gene are located on both the short and long arm of chromosome 3. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Dec 2010]
Transcript Variant: This variant (2) includes an alternate exon, which results in a frameshift, compared to variant 1. The resulting protein (isoform 2) is shorter and has a distinct C-terminus, compared to isoform 1.