

Product datasheet for SC123714

MARK4 (BC009049) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MARK4 (BC009049) Human Untagged Clone
Tag:	Tag Free
Symbol:	MARK4
Synonyms:	FLJ90097; KIAA1860; MAP/microtubule affinity-regulating kinase 4; MAP/microtubule affinity-regulating kinase like 1; MARK4 serine/threonine protein kinase; MARKL1; Nbla00650; putative protein product of Nbla00650
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for BC009049 edited

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CGGACGCGTGGGCGGACGCGTGGGCTCCCTCCTAGCATGATGACCCGCAGGGTTACCCCTC
GATCCCTCTAAACGGCAGAACTCTAACCGCTGTGTTTCGGGGCGCCTCTCTGCCCCAGGGA
TCCAAGATCAGGTCGACAGCAACCTGAGAGAATCGGGGGACCTGAGGTCACAAGTTGCC
ATCTACCTTGGGATCAAACGGAAACCGCCCCCGGCTGCTCCGATTCCCCTGGAGTGTGA
AGCTGACCAGCTCGCGCCCTCCTGAGGCCCTGATGGCAGCTCTGCGCCAGGCCACAGCAG
CGGCCCGCTGCCGCTGCCGCCAGCCACAGCCGTTCTGCTGGCCTGCACGGGGGTG
CGGGCGGGCCCGAGCCCTGTCCCACTTCGAAGTGGAGGTCTGCCAGCTGCCCGGCCAG
GCTTGGGGGAGTTCTCTTCCGCGTGTGGCGGGCACCGCCCTGGCCTTCCGCACCCTCG
TCACCCGATCTCCAACGACCTCGAGCTCTGAGCCACCACGGTCCCAGGGCCCTTACTCT
TCCTCTCCCTTGTGCGCTTCACTTCTACAGGAGGGGAAGGGGCCAGGGAGGGGATTCTCC
CTTTATCATCACCTCAGTTTCCCTGAATTATATTTGGGGGCAAAGATTGCCCCCTGCT
GTTCTCTGGGGCCGCTCAGCACAGAAGAAGGATGAGGGGGCTCAGCGGGGAGCTGGCAC
CTTCTGGAGCCTCCAGCCAGTCTGTCTCCCTCGCCCTACCAAGAGGGCACCTGAGGA
GACTTTGGGGACAGGGCAGGGGAGGGAACTGAGGAAATCTTCCATTCTCCCAA
CAGCTCAAAATTAGGCCTTGGGCAGGGGAGGGAGAGCTGCTGAGCCTAAAGACTGGAGA
ATCTGGGGGACTGGGAGTGGGGGTGAGAGGCAGATTCTTCCCTCCCGTCCCTCAC
GCTCAAAACCCCACTTCTGCCCGAGGCTGGCGGGGGCACTTTGTACAAATCCTTGTA
ATACCCACACCCCTCCCTCTGCAAAGGTCTCTTGGAGAGCTGCCGCTGTACCTACGGT
TTTTAAGTTATTACCCCGACCTCCTCTGTACGCCCTCACCTGCAGCCTGTTGCC
CAATAAATTTAGGAGAGTCCCCCCTCCCCAAAAAAAAAAAAAAAAAAAA

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5' Read Nucleotide Sequence:	>OriGene 5' read for BC009049 unedited NNNTTGTCAGATTTGTATACGACTCATATAGGCGGCCGCGCATTCCCGGGGAATCGTCGA CCCACGCGTCCGCGGACGCGTGGGCGGACGCGTGGGCTCCCTCCTAGCATGATGACCCGC AGGGTTACCCTCGATCCCTCTAAACGGCAGAACTCTAACCGCTGTGTTTCGGGCGCTCT CTGCCCCAGGGATCCAAGATCAGGTCGCAGACGAACCTGAGAGAATCGGGGGACCTGAGG TCACAAGTTGCCATCTACCTTGGGATCAAACGGAAACCGCCCCCGGCTGCTCCGATTCC CCTGGAGTGTGAAGCTGACCAGCTCGCGCCCTCCTGAGGCCCTGATGGCAGCTCTGCGCC AGGCCACAGCAGCGCCCGCTGCCGCTGCCGCCAGCCACAGCCGTTCTGCTGGCCTGCC TGCACGGGGGTGCGGGCGGGCCCGAGCCCTGTCCCACTTCGAAGTGGAGGTCTGCCAGC TGCCCCGGCCAGGCTTGCGGGGAGTTCTTCCGCCGTGTGGCGGGCACCGCCCTGGCCT TCCGCACCCTCGTACCCGCATCTCCAACGACCTCGAGCTCTGAGCCACCACGGTCCCAG GGCCCTTACTCTTCTCCTCCCTTGTGCGCTTCACTTCTACAGGAGGGGAAGGGGCCAGGG AGGGGATTCTCCCTTTATCATCACCTCAGTTTCCCTGAATTATATTTGGGGCAAAGATT GTCCCCTCTGCTGTTCTCTGGGGCCGCTCAGCACAGAAGAAAGATGAGGGGGCTCANC GG GGGAGCTGGCACCTTCTGGAGCTCCAGCCAGTCTGTCTCCTCCCTCGCCCTACCAAGAG GCACCCTGAGAGACTTTTGGGACAGGGCAGGGCAGGNAGGGAAA
Restriction Sites:	Please inquire
ACCN:	BC009049
Insert Size:	1187 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:	<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>BC009049.1</u> , <u>AAH09049.1</u>
RefSeq Size:	1187 bp
Locus ID:	57787
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]