

Product datasheet for **RR206808**

Mark1 (NM_053947) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mark1 (NM_053947) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mark1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR206808 representing NM_053947
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCGGCGCGGACGCCATTGCCACGGTGAACGAGCGGGACACGGAGAACCATACATCTGTGGATGGAT
 ATACTGAAACGCATATCCCGCCTACCAAATCAAGTAGCAGACAAAACATTCGCCGGTGTAGAAAACCCAT
 TACGTCAGCGACAGATGAACAGCCTCACATCGGAAATTACCGTTTACAGAAAACAATAGGGAAGGGGAAT
 TTTGCCAAAGTAAAATTGGCAAGGCATGTCTAACAGGTAGAGAGGTAGCTGTGAAAATAATAGACAAAA
 CTCAGCTAAACCCCTACCAGTCTACAAAAGTTGTTCCGAGAAGTACGAATAATGAAGATACTGAACCATCC
 TAACATAGTAAAAGTGTGAAATTATTGAAACAGAGAAGACGCTCTACCTGGTCATGGAATACGCAAGT
 GGGGGTGAAGTCTTTGATTACTTAGTTGCCACGGAAGAATGAAAGAGAAAAGAGGCCCGGCCAAATTCA
 GGCAGATTGTATCTGCTGTACAGTATTGCATCAAAAATGCATTGTCCACCGTATCTTAAGGCTGAAAA
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 AACAAATTGGACACATTCGTGGAAAGCCCGCCTTATGCTGCCCTGAGCTTTTCCAAGGCAAGAAGTACG
 ACGGGCCGGAAGTGGATGTGTGGAGTCTAGGCGTCATTCTCTACACGCTGGTCAGTGGCTCCCTGCCTTT
 CGATGGCCAGAATCTAAAGGAGCTCCGGGAGCGGGTCTGCGAGGGAAAGTACCGTGTTCCTTTCTACATG
 TCCACGGACTGCGAGAACCTCCTGAAGAACTGCTAGTGTGAACCCATAAAGAGGGGCAGCCTGGAGC
 AAATAATGAAAGACCGATGGATGAACGTTGGTCATGAAGAGGAAGAGCTAAAACCATATTCTGAGCCTGA
 GCTTGATCTCAATGATGCAAAAAGAATAGACATTATGGTCACCATGGGTTTTGCACGAGATGAAATCAAT
 GATGCCTTAGTAAGCCAGAAATATGATGAGGTTATGGCTACTTATATTCTCTAGGTAGAAAACCCCTG
 AGTTCGAAGGTGGTGAATCACTCCAGTGGAAACCTTTGTGAGGATCCCGGCCGAGCCTGATGACGAA
 CAACAGCACGCTTCAGTACCTGCTCACCTGAAGGTCCAGCGAAGCATCTCAGCCAACCAAGAGCAGAGG
 CGCTTCAGTGACCATGCCGGTCCCTCCATCCCCCTGCTGTCTACACAAAAGGCCTCAGGCCAACA
 GCGTGGAGAGTGAACAGAAAGAGGAGTGGGACAAAGACACAGCCCGCAGACTTGGCAGCACCACCGTGGG
 CTCGAAGAGCGAAGTACAGCCAGCCCTTGGTGGGGCCAGACAGGAAAAAGTCTCAGCTGGCCCAAGT
 AACACGTATATTCTGGCGGTAGCATGACGAGGAGAAATACATATGTGTGTGAGAGGAGCACGGACCGGT
 ACGCTGCCTTGCAGAATGGAAGAGACAGCAGCCTTACAGAGATGTCTGCCAGCAGCATGCTCTCCACAGG
 TTCCACTGTGGCCTCTGCTGGCCCTCAGCACGTCCCCGCCACCAGAAGTCTATGTCAACCTCTGGCCAC
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 CCTGCCTCCCCGTCCCATGACACAGCTGCACCTGCACATGCCAGAAGGGGGACGTCAACTGGGATAATCA
 GCAAAATCACCTCAAGTTCGTCCGAGGGACCAAGTGAAGGCGAAGCCAGTGGCAGAACCACACAGC
 CAGAGGTTTCATCGGGGAGCCGAAAGACAAGGAAGAGGGTAAGGAGGCCAAGCCGAGGTCGCTGCGCTTC
 ACGTGGAGCATGAAGACCACTAGTTCAATGGACCCCAATGACATGGTGTGAGAGAGATCCGCAAGGTGCTGG
 ATGCCAACACCTGTGACTATGAACAGAGAGAGAGGTTCTGCTCTTCTGCGTTCACGGAGACGCTCGGCA
 GGACAGCCTCGTACAGTGGGAGATGGAGGTCTGCAAGTTGCCTCGGCTCTCACTCAATGGGGTCCGCTTC
 AAGCGAATATCCGGGACATCTATTGCCTTAAGAACATTGCATCCAAAATAGCAAATGAGCTTAAGCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR206808 representing NM_053947
 Red=Cloning site Green=Tags(s)

MSARTPLPTVNERDTENHTSVDGYTETHIPPTKSSSRQNIIPRCRNSITSATDEQPHIGNYRLQKTIGKGN
 FAKVKLARHVL TGREVAVKIIDKTQLNPTSLQKLFREVRIMKILNHPNIVKLFEVIETEKTLVMEYAS
 GGEVFDYLV AHGRMKEKEARAKFRQIVSAVQYCHQKCI VHRDLKAENLLLDADMNIKIADFGFSNEFTVG
 NKLDFTFCGSPPYAAPFLFQGGKYDGPEDVWVSLGVILYTLVSGSLPFDGQNLKELRERVLRGKYRVPFYM
 STDCENLLKLLVLNPIKRGSLAQIMKDRWMNVGHEEEELKPYSEPELDLNDAKRIDIMVTMGFARDEIN
 DALVSQKYDEVMATYIILLGRKPPFEFEGGESLSSGNLCQRSRPSDDLNNSTLQSPAHLKVQRSISANQKQR
 RFS DHAGPSIPPAVS YTKRPQANSVESEQKEEWDKDTARRLGSTTVGSKSEVTASPLVGPDRKKSAGPS
 NNVYSGGSMTRRNTYV CERSTDRYAALQNGRDSSLTEMSASSMSSTGSTVASAGPSARPRHQKSMSTSGH
 PIKVTLP TIKDGSEAYRPGTAQRVPAASPSAHSISASTPDRTRFPRGSSSRSTFHGEQLRERRSAAYSGP
 PASPSHDTAALAHARRGTSTGIISKITSKFVRRDPSEGEASGRD TARGSSGEPKDKKEGKEAKPRSLRF
 TWSMKTTSSMDPNDMVREIRKVL DANTCDYEQRERFLLFCVHG DARQDSLQVWEMEVCKLPRLSLNGVRF
 KRISGTSIAFKNIASKIANELKL

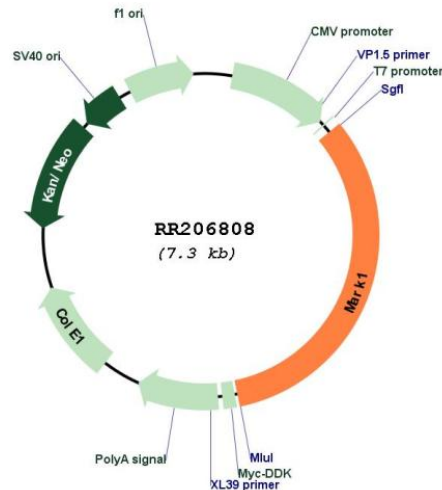
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_053947

ORF Size: 2379 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_053947.1](#), [NP_446399.1](#)

RefSeq Size: 2959 bp

RefSeq ORF: 2382 bp

Locus ID: 117016

UniProt ID: [O08678](#)

Cytogenetics: 13q26

MW: 88.2 kDa

Gene Summary: phosphorylates the microtubule binding domain of microtubule-associated proteins and facilitates microtubule disruption; plays a role in microtubule dynamics [RGD, Feb 2006]