

## Product datasheet for **RN206808**

### Mark1 (NM\_053947) Rat Untagged Clone

#### Product data:

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



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**Fully Sequenced ORF:** >RN206808 representing NM\_053947  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTCGGCGCGGACGCCATTGCCACGGTGAACGAGCGGGACACGGAGAACCATACATCTGTGGATGGAT  
 ATACTGAAACGCATATCCCGCCTACCAAATCAAGTAGCAGACAAAACATTCGCCGGTGTAGAAAACCCAT  
 TACGTCAGCGACAGATGAACAGCCTCACATCGGAAATTACCGTTTACAGAAAACAATAGGGAAGGGGAAT  
 TTTGCCAAAGTAAAATTGGCAAGGCATGTCTAACAGGTAGAGAGGTAGCTGTGAAAATAATAGACAAAA  
 CTCAGCTAAACCCCTACCAGTCTACAAAAGTTGTTCCGAGAAGTACGAATAATGAAGATACTGAACCATCC  
 TAACATAGTGAACCTGTTTGAAGTTATTGAAACAGAGAAGACGCTCTACCTGGTCATGGAATACGCAAGT  
 GGGGGTGAAGTCTTTGATTACTTAGTTGCCACGGAAGAATGAAAGAGAAAAGAGGCCCGGCCAAATTCA  
 GGCAGATTGTATCTGCTGTACAGTATTGCATCAAAAATGCATTGTCCACCGTATCTTAAGGCTGAAAA  
 CCTTCTCCTTGATGCTGATATGAATATTAATAATGCTGACTTTGGTTTTAGCAATGAATTCACAGTGGGG  
 AACAAATTGGACACATTCGTGGAAAGCCCGCCTTATGCTGCCCTGAGCTTTTCCAAGGCAAGAAGTACG  
 ACGGGCCGGAAGTGGATGTGTGGAGTCTAGGCGTCATTCTCTACACGCTGGTCAGTGGCTCCCTGCCTTT  
 CGATGGCCAGAATCTAAAGGAGCTCCGGGAGCGGGTCTGCGAGGGAAAGTACCGTGTTCCTTTCTACATG  
 TCCACGGACTGCGAGAACCTCCTGAAGAACTGCTAGTGTGAACCCATAAAGAGGGGCAGCCTGGAGC  
 AAATAATGAAAGACCGATGGATGAACGTTGGTCATGAAGAGGAAGAGCTAAAACCATATTCTGAGCCTGA  
 GCTTGATCTCAATGATGCAAAAAGAATAGACATTATGGTCACCATGGGTTTTGCACGAGATGAAATCAAT  
 GATGCCTTAGTAAGCCAGAAATATGATGAGGTTATGGCTACTTATATTCTCTAGGTAGAAAACCCCTG  
 AGTTCGAAGGTGGTGAATCACTGCTCCAGTGGAAACCTTTGTCAGCGATCCCGGCCGAGCAGTGAACGAA  
 CAACAGCACGCTTCAGTCACTGCTCACCTGAAGGTCCAGCGAAGCATCTCAGCCAACCCAGAAGCAGAGG  
 CGCTTCAGTGACCATGCCGGTCCCTCCATCCCCCTGCTGTCTACACAAAAGGCCTCAGGCCAACA  
 GCGTGGAGAGTGAACAGAAAGAGGAGTGGGACAAAGACACAGCCCGCAGACTTGGCAGCACCACCGTGGG  
 CTCGAAGAGCGAAGTACAGCCAGCCCTTGGTGGGGCCAGACAGGAAAAAGTCTCAGCTGGCCCAAGT  
 AACACGTATATTCTGGCGGTAGCATGACGAGGAGAAATACATATGTGTGTGAGAGGAGCACGGACCGGT  
 ACGCTGCCTTGCAGAATGGAAGAGACAGCAGCCTTACAGAGATGTCTGCCAGCAGCATGCTCTCCACAGG  
 TTCCACTGTGGCCTCTGCTGGCCCTCAGCACGTCCCCGCCACCAGAAGTCTATGTCAACCTCTGGCCAC  
 CCTATTAAGTTACACTGCCAACCATTAAGATGGCTCTGAAGCTTATCGGCCTGGTACAGCTCAGAGAG  
 TGCTGTGCTTCCCGTCTGCTCACAGCATTAGTGCCAGTACTCCTGACAGGACCCGCTTCCCGCGAGG  
 GAGCTCCAGCCGAAGCACTTCCACGGGAGCAGCTCCGAGAGCGGCGCAGTGTGCTTATAGCGGACCA  
 CCTGCCTCCCCGTCCCATGACACAGCTGCACCTGCACATGCCAGAAGGGGGACGTCAACTGGGATAATCA  
 GCAAAATCACCTCCAAGTTCGTCCGAGGGACCAAGTGAAGGCGAAGCCAGTGGCAGAACCACACAGC  
 CAGAGGTTTCATCGGGGAGCCGAAAGACAAGGAAGAGGGTAAGGAGGCCAAGCCGAGGTCGCTGCGCTTC  
 ACGTGGAGCATGAAGACCACTAGTTCAATGGACCCCAATGACATGGTGAAGAGATCCGCAAGGTGCTGG  
 ATGCCAACACCTGTGACTATGAACAGAGAGAGAGGTTCTGCTCTTCTGCGTTCACGGAGACGCTCGGCA  
 GGACAGCCTCGTACAGTGGGAGATGGAGGTCTGCAAGTTGCCTCGGCTCTCACTCAATGGGGTCCGCTTC  
 AAGCGAATATCCGGGACATCTATTGCCTTAAAGAACATTGCATCCAAAATAGCAAATGAGCTTAAGCTGT  
 AG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_053947  
**Insert Size:** 2382 bp

<b>OTI Disclaimer:</b>	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).
<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>	<a href="#">NM_053947.1</a> , <a href="#">NP_446399.1</a>
<b>RefSeq Size:</b>	2959 bp
<b>RefSeq ORF:</b>	2382 bp
<b>Locus ID:</b>	117016
<b>UniProt ID:</b>	<a href="#">O08678</a>
<b>Cytogenetics:</b>	13q26
<b>Gene Summary:</b>	phosphorylates the microtubule binding domain of microtubule-associated proteins and facilitates microtubule disruption; plays a role in microtubule dynamics [RGD, Feb 2006]