

## Product datasheet for **RN217168**

### Mark4 (NM\_001191071) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mark4 (NM_001191071) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Mark4
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN217168 representing NM\_001191071  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCTTCGAGGACGGCGCTGGCCCCGGGCAACGATCGGAACTCGGACACGCATGGCACCTTGGGCAGCG  
 GACGATCTTCGGACAAAGGACCGTCTGGTCCAGCCGTTCCCTGGGTGCTCGTTGCCGAACTCTATCGC  
 TTCTGCCTGAGGAGCAACCCCATGTGGGCAACTACAGGCTGCTCAGGACCATCGGGAAGGGCAACTTT  
 GCTAAAGTCAAGCTGGCTCGGCATATCCTCACGGGCCGGGAGGTCGCTATCAAGATCATTGATAAAACCC  
 AGCTGAACCCAGTAGCTTACAGAAGCTGTTACAGAGAAGTTTGAATTATGAAGGGACTCAATCACCCCAA  
 CATCGTGAAGCTTTTGGAGTGATAGAGACGGAGAAGACGTTATACCTGGTGATGGAATATGCTAGCGCA  
 GGAGAAGTGTGGTACTACCTCGTGTGCGACGGCCGCATGAAGGAGAAGGAGGCTCGAGCCAAGTTTCGGC  
 AGATCGTGTGACCCGTGCACTACTGTACCAGAAGAATTTGTACACAGGGATCTGAAGGCTGAGAACCT  
 GTTGTGGATGCCGAGGCCAACATCAAAATCGCCGACTTCGGCTTCAGCAACGAGTTCACGCTCGGCTCC  
 AAGCTGGACACCTTCTGTGGGAGCCCCCGTACGCCGCCCGGAACTGTTCCAGGGAAGAAGTATGATG  
 GGCCAGAGGTGGACATCTGGAGCCTGGGCGTTATCCTGTACACACTGGTCAGCGGCTCCCTGCCCTTCGA  
 CGGGCACAACTCAAGGAGCTGCGGGAGCGAGTCTCAGGGGCAAGTACCGAGTCCCTTCTACATGTCT  
 ACAGACTGCGAGAGCATTCTGCGGAGATTTCTGGTGCTGAACCCCGAAAACGCTGTACCCTGGAGCAAA  
 TCATGAAAGACAAATGGATCAACATTGGCTATGAGGGTGAAGGAGTGAAGCCATACACGGAAACCCGAGGA  
 GGACTTCGGGGACACCAAGAGAATTGAGGTGATGGTGGGTATGGGCTACACACGGGAAGAATCAAAGAG  
 GCCTTGACCAACCAGAAGTACAACGAGGTGACCGCCACCTACCTCCTGCTGGGCAGGAAGACTGAGGAGG  
 GTGGGGACCGGGGTGCCCGAGGCTGGCCCTGGCACGGGTGCGGGCGCCAGCGACACCAACCAATGGGAC  
 AAGCTCCAGCAAAGGCGAGCAGCCACAACAAGGGCAGCGGACTTCTTCCACCTACCACCGCCAGCGT  
 CGGCACAGCGACTTCTGTGGCCCTCCCTGCCCGCTGCACCCGAAGCGCAGCCCAACAGCACGGGGG  
 ACACGGAGCTCAAAGAAGAGCGGCTGCCGGTTCGGAAAGCAAGCTGCAGTGCAGCGGGCAGCGGGAGTCG  
 AGGCTTGCCTCCAGCCCCATGGTCAGCAGTGCACCAACCCCAACAAGGCAGAGATCCCGAGCGG  
 CGGAAGGACAGCACTAGTACCCCAACAACCTCCCTCCAGCATGATGACCCGAAGAAACACCTACGTGT  
 GCACAGAGCGCCAGGCTGAGCGCCAGTCTTGTGCCAAATGGCAAAGAAAATAGCTCTGGTACCTC  
 GCGGGTGCCTCCCTCACCTCCAGTACAGCCTGGCTCCCTCATCGGAGAGCGGAGCCGCTGGCT  
 CGGGGCTCCACCATCCGACGACCTTCCATGGGGCCAGGTCCGAGACCGCGGGCAGGGGGCGGGAGTG  
 GCGGGGTGTGCAGAATGGACCCCGGCTCACCCACGCTGGCCCATGAGGCCGACCCCTGCCCTCCGG  
 GCGGCCCCGCCCCACCACCAACCTTCCACCAAGCTGACCTCAAACCTGACCCGAAGGGTACAGACGAA  
 CCTGAGAGAATCGGGGACCTGAGGTACAAGTTGCCATCTACCTGGGATAAAGCGGAAACCGCCCCCA  
 GGCTGCTCAGATCCCTGGAGTGTGAACTGACCAGCTCTCGACCTCCTGAGGCCCTGATGGCTGCCCT  
 GCGACAGGCCACAGCGGCCGCCGCTGCCGGTGGCCGACGCCGACCGTTCCTGCTGGCTGCCTGCAC  
 GGGGTGCGGGCGGGCCGAGCCCTGTCCATTTGAAAGTAGAGGTGTGCCAGCTGCCCGGCCCGGCC  
 TCAGGGGCGTCTTCCGCGCGTGGCGGGCACCGCCCTGGCTTCCGAACCTTGTACCCGCAATTC  
 CAACGACCTCGAACT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_001191071

**Insert Size:** 2259 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).

<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<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>	<u>NM_001191071.1, NP_001178000.1</u>
<b>RefSeq Size:</b>	3217 bp
<b>RefSeq ORF:</b>	2259 bp
<b>Locus ID:</b>	680407
<b>Cytogenetics:</b>	1q21