

## Product datasheet for **RR217168**

### Mark4 (NM\_001191071) Rat Tagged ORF Clone

#### Product data:

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



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**ORF Nucleotide Sequence:**

>RR217168 representing NM\_001191071  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCCTCGAGGACGGCGCTGGCCCCGGGCAACGATCGGAACTCGGACACGCATGGCACCTTGGGCAGCG  
 GACGATCTTCGGACAAAGGACCGTCCTGGTCCAGCCGTTCCCTGGGTGCTCGTTGCCGAACTCTATCGC  
 TTCTGCCTGAGGAGCAACCCCATGTGGGCAACTACAGGCTGCTCAGGACCATCGGGAAGGGCAACTTT  
 GCTAAAGTCAAGCTGGCTCGGCATATCCTCACGGGCCGGGAGGTCGCTATCAAGATCATTGATAAAACCC  
 AGCTGAACCCAGTAGCTTACAGAAGCTGTTACAGAGAAGTTTCAATTATGAAGGGACTCAATCACCCCAA  
 CATCGTGAAGCTTTTGGAGTGATAGAGACGGAGAAGACGTTATACCTGGTGATGGAATATGCTAGCGCA  
 GGAGAAGTGTGGTACTACCTCGTGTGCGACGGCCGCATGAAGGAGAAGGAGGCTCGAGCCAAGTTTCGGC  
 AGATCGTGTGACCCGTGCACTACTGTACCAGAAGAACATTGTACACAGGGATCTGAAGGCTGAGAACCT  
 GTTGCTGGATGCCGAGGCCAACATCAAAATCGCCGACTTCGGCTTCAGCAACGAGTTCACGCTCGGCTCC  
 AAGCTGGACACCTTCTGTGGGAGCCCCCGTACGCCGCCCGGAACTGTTCCAGGGCAAGAAGTATGATG  
 GGCCAGAGGTGGACATCTGGAGCCTGGGCGTTATCCTGTACACACTGGTCAGCGGCTCCCTGCCCTTCGA  
 CGGGCACAACTCAAGGAGCTGCGGGAGCGAGTCTCAGGGGCAAGTACCGAGTCCCTTCTACATGTCT  
 ACAGACTGCGAGAGCATTCTGCGGAGATTTCTGGTGCTGAACCCCGAAAACGCTGTACCCTGGAGCAAA  
 TCATGAAAGACAAATGGATCAACATTGGCTATGAGGGTGAGGAGCTGAAGCCATACACGGAACCCGAGGA  
 GGACTTCGGGGACACCAAGAGAATTGAGGTGATGGTGGGTATGGGCTACACACGGGAAGAATCAAAGAG  
 GCCTTGACCAACCAGAAGTACAACGAGGTGACCGCCACCTACCTCCTGCTGGGCAGGAAGACTGAGGAGG  
 GTGGGGACCGGGTGCCTCAGGGCTGGCCCTGGCACGGGTGCGGGCGCCAGCGACACCAACCAATGGGAC  
 AAGCTCCAGCAAAGGCAGCAGCCACAACAAGGGCAGCGGACTTCTTCTCCACCTACCACCGCCAGCGT  
 CGGCACAGCGACTTCTGTGGCCCGTCCCTGCCCGCTGCACCCGAAGCGCAGCCCAACAGCACGGGGG  
 ACACGGAGCTCAAAGAAGAGCGGCTGCCGGTTCGAAAGCAAGCTGCAGTGCAGCGGGCAGCGGGAGTCG  
 AGGCTTGCCCCCTCCAGCCCCATGGTCAGCAGTGCCCAACCCCAACAAGGCAGAGATCCCCGAGCGG  
 CGGAAGGACAGCACTAGTACCCAAACAACCTCCCCCAGCATGATGACCCGAAGAAACACCTACGTGT  
 GCACAGAGCGCCAGGCTGAGCGCCAGTCTTGTGCAAATGGCAAAGAAAATAGCTCTGGTACCTC  
 GCGGGTGCCCCCTGCCTCACCTCCAGTACAGCCTGGCTCCCCATCGGGAGAGCGGAGCCGCCTGGCT  
 CGGGGCTCCACCATCCGACACCTTCCATGGGGCCAGGTCCGAGACCGCGGGCAGGGGGCGGGAGTG  
 GCGGGGTGTGAGAATGGACCCCGGCCCTCACCCACGCTGGCCCATGAGGCCGCACCCCTGCCCTCCGG  
 GCGGCCCGCCCCACCACCAACCTTCCACCAAGCTGACCTCAAACCTGACCCGAAGGGTACAGACGAA  
 CCTGAGAGAATCGGGGACCTGAGGTACAAGTTGCCATCTACCTGGGATAAAGCGGAAACCGCCCCCA  
 GGCTGCTCAGATTCCTTGGAGTGTGAACTGACCAGCTCTCGACCTCCTGAGGCCCTGATGGTGCCCT  
 GCGACAGGCCACAGCGGCCGCCGCTGCCGGTGGCCGACGCCGACCGGTTCTGCTGGCCTGCCTGCAC  
 GGGGTGCGGGCGGGCCGAGCCCTGTCCATTTCAAGTAGAGGTGTGCCAGCTGCCCGGCCCGGCC  
 TCAGGGGCGTCTTCCGCGCGTGGCGGGCACCGCCCTGGCCTCCGAACCTTGTACCCGCATTTCC  
 CAACGACCTCGAACTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR217168 representing NM\_001191071  
 Red=Cloning site Green=Tags(s)

MSSRTALAPGNDNRSDHTGLGSSGRSSDKGPSWSSRSLGARCNSIASCPEEQPHVGNRYLLRTIGKGNF  
 AKVKLARHILTGREVAIKIIDKTQLNPSSLQKLFREVRIMKGLNHPNIVKLFVETIEKTLVLMVEYASA  
 GEVFDYLVSHGRMKEKEARAKFRQIVSAVHYCHQKNIVHRDLKAENLLDAEANIKIADFGFSNEFTLGS  
 KLDFTFCGSPPYAAPELFGKKYDGPVVDIWSLGVILYTLVSGSLPFDGHNKELRERVLRGKYRVPFYM  
 TDCE SILRRFLVLPNPAKRCTLEQIMKDKWINIGYEGEELKPYTEPEEDFGDTKRIEVMVGMGYTREEIKE  
 ALTNQKYNEVTATYLLLGRKTEEGDRGAPGLALARVRAPSDTTNGTSSSKGSSHNKGQRTSSSTYHRQR  
 RHSDFCGSPAPLHPKRSPTSTGDELKEERLPGRKASCSAAGSGSRGLPPSSPMVSSAHNPNAEIPER  
 RKDSTSTPNLPPSMMTRRNTYVCTERPGSERQSLPNGKENSSTSRVPPASPSHSLAPPSGERSRLA  
 RGSTIRSTFHGGQVDRRAGGGSGGVQNGPPASPTLAHEAAPLPSGRPRPTNLFKLT SKL TRRVTDE  
 PERIGGPEVTSCHLPWDKAETAPRLLRFPWSVKLTSSRPPEALMAALRQATAAARCRQPQPFLLACLH  
 GGAGGPEPLSHFEVEVCQLPRPGLRGLVFRVAGTALAFRTLVTIRISNDLEL

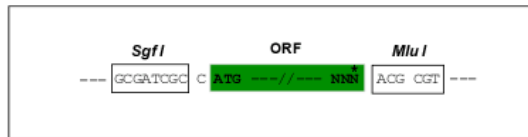
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001191071

**ORF Size:** 2256 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\\_001191071.1](#), [NP\\_001178000.1](#)

**RefSeq Size:** 3217 bp

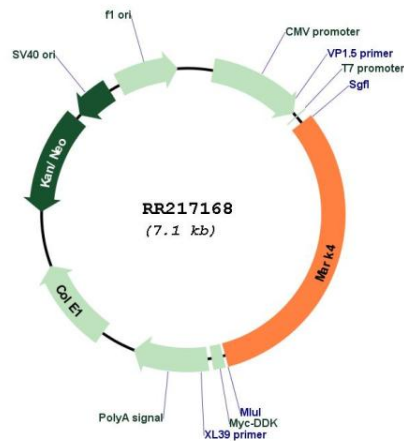
**RefSeq ORF:** 2259 bp

**Locus ID:** 680407

**Cytogenetics:** 1q21

**MW:** 82.6 kDa

**Product images:**



Circular map for RR217168