

## Product datasheet for **RR209074**

### Mos (NM\_020102) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Mos (NM\_020102) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Mos  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR209074 representing NM\_020102  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCTTCGCCTCTCATCTGTGTGCTACCTCCCTCGCGAGCTGTCGCCAACGGTGGACTCGAGGTCCT  
GCAGCAGCCCCTTGGTGGCCTCGAGGAAGCGGGGAAGTTCCTGGGGCCACTCCTCCTCGGCCCCCGG  
GCTGTCACGCCGGCTGGCCTGGTCTTCATAGACTGGGACAGGTATGCCTGCTGCATAGGCTGGTCT  
GGAGGGTTTGGCTCGGTGTACAAAGCCACTTACCACGGTGTTCCTGTGGCCATCAAGCAAGTGAACAAGT  
GCACCAGGAACCTACGTGCATCCCAGCGGAGTTTCTGGGCTGAACTGAACATTGCAAGGCTGCACCACGA  
CAACATAGTCCGGTTGTGGCTGCCAGCACGCGCACGCCGGAAGTTCCAACAGCCTTGGTACCATAATC  
ATGGAGTTTGGGGCAATGTGACTCTACACCAAGTCATCTACGGTGCCACCCGCTCCCCAGAGCCTCTCA  
GCTGCAGAGAGCAACTGAGTTTGGGAAAGTGCCTCAAGTATTCCTAGATATTGTTAACGGCCTGCTTTT  
TCTCCACTCACAAGCATTTTGCCTTGGACCTGAAGCCAGCGAACATTTTGATCAGTGAGAAGGACGTT  
TGTAAGATAAGTGACTTCGGCTGCTCCCAGAAGCTTCAGGATCTGCGGTGCCGGCAGGCGTCCCTCACC  
ACATCGGGGGCAGTACACGCACCAAGCTCCGGAGCTCCTGAAAGGAGAGATCGCCACGCCCAAAGCCGA  
CATCTACTCTTTTGGCATCACCTGTGGCAGATGACCACCAGGGAGGTGCCTTACTCCGGCGAGCCTCAG  
TACGTGCAGTACGCAGTGGTAGCCTACAATCTGCGCCCGTCACTGGCAGGGGGCGGTTCACCGCCTCCC  
TGACTGGGAAGACGCTGCAGAACATCGTCCAGAGCTGCTGGGAGGCCCGCCCTGCAGAGGCCGGGTGC  
AGAAGTCTCCAGAAGGACCTGAAGGCTTTCGAGGGGCACTGGGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR209074 representing NM\_020102  
 Red=Cloning site Green=Tags(s)

MPSPLILCRYLPRELSPVDSRSCSSPLVASRKAGKFLGATPPRAPRLSRRLAWCFIDWGQVCLLHRLGS  
 GFGGSVYKATYHGVPVAIKQVNKCTRNLRASQRSFWAELNIARLHHDNIVRVVAASTRTPEGSNSLGTII  
 MEFGGNVTLHQVIYGATRSPEPLSCREQLSLGKCLKYSLDIVNGLLFLHSQSILHLDLKPANILISEKDV  
 CKISDFGCSQKLQDLRCRQASLHHIGGTYTHQAPPELLKGEIATPKADIYSFGITLWQMTTREVPSGEPQ  
 YVQYAVVAYNLRPSLAGAVFTASLTGKTLQNIQVQSCWEARALQRPGAELLQKDLKAFRGALG

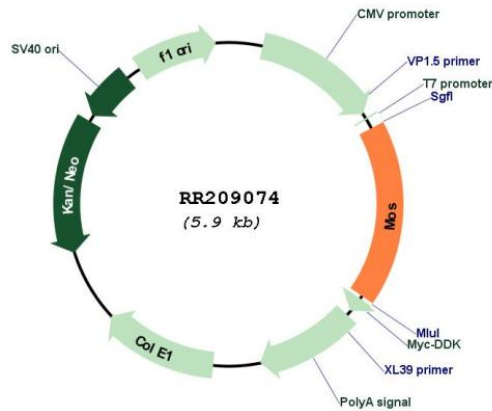
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_020102

|                               |   |
|-------------------------------|---|
| <b>ORF Size:</b>              | 1026 bp   |
| <b>OTI Disclaimer:</b>        | 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. <a href="#">More info</a>  |
| <b>OTI Annotation:</b>        | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.  |
| <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_020102.4</a> , <a href="#">NP_064487.3</a>   |
| <b>RefSeq Size:</b>           | 1308 bp   |
| <b>RefSeq ORF:</b>            | 1029 bp   |
| <b>Locus ID:</b>              | 24559   |
| <b>Cytogenetics:</b>          | 5q12  |
| <b>MW:</b>                    | 37.7 kDa  |
| <b>Gene Summary:</b>          | phosphorylates and activates Map2k1; may play a role in meiotic division of spermatocytes and oocytes [RGD, Feb 2006]   |