

## Product datasheet for **RR217424**

### Mms19 (NM\_001271596) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Mms19 (NM\_001271596) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Mms19  
**Synonyms:** Mms19l  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR217424 representing NM\_001271596  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGCTGCCGCCACTGCTCTGGAGGAGGCAGGGCGCCTATGGGCGCCCTGTGTGGCCTCGTGCAAGACT  
TCGTCATGGGTCAGCAGGAGGGCCCGCTGACCAGGTGGCTGCAGATGTGAAATCCGGTGGCTATACAGT  
GTTACAAGTAGTAGAAGCCCTCGGGTCTCTCTGGAGAATCCAGAACCCGAACCTCGGGTCGAGGAATC  
CAGCTTTTGTACAGGTGCTACTCCAGTGTCACTCCTTGCTCTTGAGAGAAGGAAGCAGTCCACCTGACCC  
TGTTCATGAGAACCGGCTGAAGGACCACCATCTTGTGGTCCCATCTGTCTGCAGGGCCTGAGGGCACT  
GAGCCTGTCTGTGGCCCTGCCCGGGCCCTGGCTGTCTCTGTGCTTAAAGCCATCTTCCAGGAGGTACAC  
GTACAGTCCCTGCTACAGGTAGACCGCCATACTGTCTTCAGTATCATCACTAACTTCATGCGATCACGAG  
AAGAAGAGCTGAAGAGCCTAGGAGCTGACTTACATTTGGCTTCATCCAGGTGATGGATGGAGAAAAGGA  
TCCCGTAATCTTTTGTGGCTTCCGCATCGTCCAGCCTCATCTCCAAGGACTACAATCTGGGACCT  
TTTGTGGAAGAGTATTTGAAGTGACATCTTGTATTTCCCTATTGATTTTACCCCTCCTCTAATGATC  
CTTATGGCATCCAGAGAGAGGATCTCATCTGAGTCCCGTGTGTGCTGGCTTCCACACCGCGGTTTGC  
TGAGTTCTTACTGCCTCTGCTAATTGAGAAAGTGATTCTGAGATTTTAAGTGCCAAGCTGGATTCTCTG  
CAAACCTGAATGCTTGCTGTGCTGTGTATGGACAGAAGGAGCTAAAGGACTTCTCCCCAGCCTTTGGG  
CATCCATCCGAGAGAGGTTTCCAGACAGCGAGTGAGCGAGTAGAGGCTGAGGGCCTGGCAGCTCTCCA  
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AGCAGCATTCTACAAGACTGCAGGCACCATCTATGTGAACCAGACATGAAACTTGTATGGCTAGCGCTA  
AGCTGTTACAGGCAGCTGCAGGTGCATCTGCCCGGCCTGTGAGCACATCACCAGCAACGTGCTTCCCTT  
GCTGCTGGAACAGTTCCACAAGCACAGCCAGCAACCAGCGGCGACAATCCTTGAAATGATCCTGGGA  
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AGCTGTGCTCATTGGTGTTCATGGCTTAACGGATCCCAGCACCCAGCTTCAGCTTGTGGCATCCGGAT  
GCTGACGGTCTTGGGTGCCAGCCAGATCTGCTGTCTGCTGAGGACTTGAGTTAGCAGTAGGTCACCTC  
TACCGACTGAGCTTGCTGGAGGAAGATGCCAGAGTTGTAGGGTGGCAGCATTGGAGGCATCAGGATCCC



TGGCCACTCTGTATCCCGGAGCCTTCAGCAGCCACTACTACCCAGGCTTGCTGAGGGGCTGCATCAAGG  
 GGAGTCAGACGTGGCTAGAGCGGATGGGCCACCAATGTTCTCGGCATTTTCGCTGTCTGCAAGCTTTG  
 TCAGCTGTTTTGACACATCCCGACATTGTCAAGGAGACTGCCTCTGCTACTGCAGCATCTCTGCAGG  
 CACACAAAGGGAATGATTACAGAGTCCAGTGAAGTTGTTGCTGTTTGTGAGAGTCTCCAGCAGGTGGC  
 AGAAAAATGCCAGCAGGACCCTGAGAGTACTGGTATTTCCACAAGACTGCTGTGCCCTGCCTGTTTGA  
 TTAGCTGTGCAGGCTTCAGTCCAGAGAAGGCGTCCTCCGTTCTGAGCAAAGCACTGTTGGAGGATGAGG  
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 TGTACATGCATCGTGCCCTCTTCTAGATGGCAACACCTCTTTCTACCTGAAAACAGCTTCCAGGC  
 CACTTCCAGCCATTCCAGGGCGGCTCCTCTGGGCAAAGGCGGCTGGTTGCACTACTTATGGCTTTCGTCT  
 GCTCCCTGCCACGAAATGTGAAATCCCGAGCTGACCCGACTCATGCAGGAGCTTTTGAAGCAGAGCTG  
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 CCAGGGCAGCAGTTGGATGAGTTCCTCCAGCTCTCTGTGGACACAGTGGAGGCGGCTGGCCCTGAAT  
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 CAGTGCCAGCCTAACCGCTCGGCTCATGGGCTCCTCAGCGACCCAGAAGTGGCTGTGCAGCAGCTGAT  
 GGCTTCTCTGCTCATGTCTGACTGCACTGATGTGCTGACTCGGGCCGCCATGCTGATGTTCCGATCA  
 TGTTCCGCCAGCGCTTCTCACAGACAATGTGCCTGCTTTGGTCCAGGGTTTCCATGCTGCTCCCAAGA  
 TGTGAAGCCAAACTATCTGAAGGCTTATCTCATGTACTCAACAGGCTGCCTAAGCCTGTGCTTTTACCA  
 GAGCTGCCACACTCCTTTCCTTGTGCTGGAGGCACTGTCTGCCCTGACTCTGTGGTCCAGCTTTCCA  
 CTTTGAGCTGTCTCAACCCCTTACTACTGGAAGCACCCCAATCATGAGTCTTATGTTGATACTCTGGT  
 CACGAAATTCCTGAACCTCAGTTCAGTCAATCAATGGCCGTCGGATTGCTGCTCTGCAGTGTATGCAT  
 GCTCTCACTCGGCTACCCACTTCTGTGTGCTGCCATTCAATCTCAGGTGATCCGAGCTTTAGCCAAGC  
 CTCTGGATGACAAGAAGAGACTTGTGCGCAAGGAAGCAGTGTGAGCAAGGGGAGAATGGTTCCTACTGG  
 GAGCCCTGGGAGC

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR217424 representing NM\_001271596  
 Red=Cloning site Green=Tags(s)

MAAATALAEEAAPMGALCGLVQDFVMGQEQPADQVAADVKSQGYTVLQVVEALGSSLENPEPRTRARGI  
 QLLSQVLLQCHSLLLLEKEAVHLTLFYENRLKDHHLVVPVSVLQGLRALSLSVALPRGLAVSVLKAIFQEVH  
 VQSLQVDRHTVFSIITNFMRSEELKSLGADFTFGFIQVMDGEKDPNLLAFRIVHDLISKDYNLGP  
 FVEELFEVTSYFPIDFTPPPNDPYGIQREDLILSLRAVLASTPRFAEFLPLLIEKVDSEILSAKLDL  
 QTLNACCAVYQKELKDFLPSLWASIRREVFQTASERVEAEGLAALHSLTACLSCSVLRADAEDLLHPFL  
 SSILQDCRHHLCPEPMKLVWPSAKLLQAAAGASARACEHITSNVLPLLEQFHKHSQSNQRRRTILEMILG  
 FLKLQQKWSYEDRDERPLSNFKDQLCSLVMAL TDPSTQLQLVGIRMLTVLGAQPDLLSAEDLELAVGHL  
 YRLSLLLEEDAQSCRVAALASGSLATLYPGAFSSHLLPRLAEGHQGESDVARADGPTKCSRHFRLQAL  
 SAVSTHPDIVKETPLLLLQHLCAHKGNMITESEVVAVCQSLQQVAEKQDPEYWFHKTAVPCLFA  
 LAVQASVPEKASSVL SKALLEDEVLAALASVIGTATTHLSPELAAQSVTCIVPLFLDNGTSFLPENSPFG  
 HFQPFQGGSSGQRRVALLMAFVCSLPRNVEIPELTRLMQELLKQSCGHSCPFSSTAASKCFAGLLNKQP  
 PGQQLDEFQLSVDTVEAGLASESSRNQAFLLLWTKALVLRHPLSASLTARLMGLLSDPELGCAAAD  
 GFSLLMSDCTDVLTRAGHADVRIMFRQRFDTNVPALVQGFHAAPQDVKPNYLKGLSHVLNRLPKPVLLP  
 ELPTLLSLLLEALSCPDSVVQLSTLSCLQPLLEAPQIMSLHVDLTVKFLNLSSSHSMAVRIAALQCMH  
 ALTRLPTSULLPFKSQVIRALAKPLDDKRLVRKEAVSARGEWFLLGSPGS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

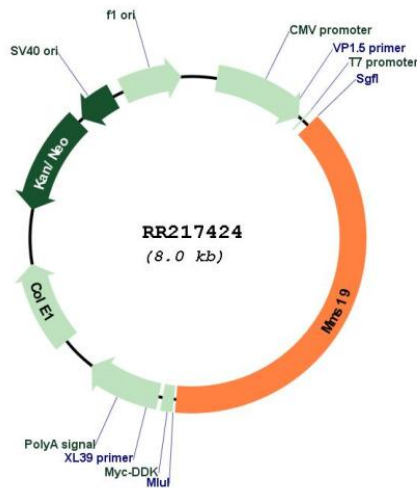
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001271596

ORF Size: 3093 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](#)

<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>	<u><a href="#">NM_001271596.1</a>, <a href="#">NP_001258525.1</a></u>
<b>RefSeq Size:</b>	3472 bp
<b>RefSeq ORF:</b>	3096 bp
<b>Locus ID:</b>	171124
<b>Cytogenetics:</b>	1q54
<b>MW:</b>	112.9 kDa