

## Product datasheet for **RR207116**

### **Mst1 (NM\_024352) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mst1 (NM_024352) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mst1
Synonyms:	E2F2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR207116 representing NM\_024352  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGGTGGCTCCCACTACTGCTTCTGGCACAGTGTCAAGGGCTCTTGGGCAGCGCTACCGCTGA  
 ATGACTTCCAGCTGCTTCGGGGCACAGAGTTAAGGAACCTGCTACATCCAGTGGTCCAGGGCCATGGCA  
 GGAGGATGTGGCAGATGCCGAGGAGTGTCTAGACGCTGTGGGCCCTTCTGGACTGCCGAGCCTCCAC  
 TACAATATGAGCAGCCATGGTTGCCAGCTACTACCGTGGACTCAGCACTCTCTGCGTGCACAGCTACACC  
 ATTCTAGCCTGTGCGATCTTCCAGAAGAAAGACTATGTACGGACCTGCATTATGGACAATGGGGCCAG  
 CTACCGGGGCACTGTGGCCAGGACAGCTGATGGCTTGCCTGCCAAGCCTGGAGCCGAGGTTCCCAAT  
 GACCACAAGTACACGCCACACCGAAGAATGGCCTGGAAGAGAATTCTGTGGAAACCTGATGGGGACC  
 CCAGAGGTCCTGGTGTACACGACAAACCGCAGCGTTCGCTTCCAGAGCTGCGGCATCAAATCATGCAG  
 GGAGGCGGTTTGTGTTTGGTGAACGGCGAGGATTACCGTGGCGAGGTAGACGTTACAGAATCGGGACGG  
 GAGTGTCAACGCTGGGACCTGCAGCACCCACACTCGCACCCCTTCCACCCCTGAAAAGTCCAGACAAG  
 CTCTGAAAGACAATATTGCCGTAATCCGGATGCATCTGAGCGCCCTGGTGTACACCACGGACCCGAA  
 GTTTGAGCGAGAGTTCTGTGACCTGCCAGTTGCGGGCCAACTGCCACCGACCACAAAGGATCCAAG  
 TCACAACAGCGCAACAAGGTCAAGGCTTCAAGTCTTCCGCGGAAAAGTGAAGACTATCGAGGCACAA  
 CCAATACCACCTCTGCGGGTGTGCCCTGCCAGCGCTGGGATGCGCAGAATCCGCACCAGCACCGCTTTGT  
 GCCGGAGAAATATGCTTGAAGGACCTTCGTGAGAATTTCTGCCGGAATCCTGATGGCTCCGAGGCGCCT  
 TGGTGTTCACATCTCGACCTGGTTTGCCTGTGGCCTTTTGTACCAGATCCCACGCTGCACAGAAGAAG  
 TGTTGCCAGAGGGCTGCTACCATGGCTCAGGTGAACAGTATCGTGGCTCAGTCAGCAAGCACGCAAGGG  
 CGTTCAAGTGCCAGCACTGGTCCTCAGAGACACCACATAAGCCACAATTCACACCCACCTCAGCACCAT  
 GCAGGCTTGGAGGCAAACTTTTCCGGAATCCGGATGGAGATAGCCATGGGCCCTGGTGTATACTTTGG  
 ACCCAGAGACCCTGTTTACTACTGTGCCCTAAAACGCTGTGATGATGACCAGCCACCATCCATCTTGGA  
 CCCCCAGTCCAGGTGCAGTTTAAAAGTGTGGCAAGAGAGTTGACCAGAGTAATAGACTTCGTGTGGT  
 GGGGGTCATCCTGGAACTACCGTGGACAGTCACTTGCAGGATCGACAGGGCCAGCATTCTGTGGG  
 GTTCCCTAGTGAAGGAGCAGTGGTACTGACCGCCCGCAATGCATCTGGTCATGCCATGATCCTCTCAC  
 AGGATATGAGGTATGGTTGGGTACAATTAACCAGAACCCACAGCCTGGAGAAGCAAACCTGCAGAGGGTC  
 TCAGTGGCCAAGACAGTGTGCGGACCTGCAGGCTCCCACTTGTCTGCTCAAGTGGAGAGACCTGTGA  
 TCCTGAACCATCACGTGGCCAGGATTTGCCTACCTCCTGAACAGTATGTGGTACCTCCAGGGACCACTG  
 CGAGATCGCTGGCTGGGGTGAATCCAAAGTACAAGCAATAGCACAGTCCTTCATGTGGCCAAAATGAAG  
 GTCATCTCCAGTCAGGAATGTAATGTGAAGTACCGGAGACGAGTACAAGAGAGTGAGATATGCACCGAGG  
 GGTTGCTGGCCCCACGGGCGCTTGTGAGGGTACTACGGGGGCCCACTTGCTGCTATACCCATGACTG  
 CTGGGTCTACAGGGACTTATCATCCCGAACAGAGTGTGTGCACGGCCTCGCTGGCCAGCTATCTTACA  
 CGTGTGTCTGTGTTTGTGGACTGGATTAACAAGGTCGTGCAGCTGGAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR207116 representing NM\_024352  
 Red=Cloning site Green=Tags(s)

MGWLPLLLLLAQCSRALGQRSPNLNDFQLLRGTELRNLLHPVVPWPQEDVADAEECARRCGPLLDCAFH  
 YNMSHGCQLLPWTQHSLRAQLHSSLCDLFQKKDYVRTCIMDNGASYRGTVARTADGLPCQAWSRRFPN  
 DHKYTPTPKNGLEENFCRNPDGDPRGPWCYTTNRSVRFQSCGIKSCREAVCVWNGEDYRGEVDVTESGR  
 ECQRWDLQHPHSHPFHPEKFPDKALKDNYCRNPDASERPWCYTTDPNVEREFCDLPCSGPNLPPTTKGSK  
 SQQRNKVKASNCFRGKGEDYRGTNTTTSAGVPCQRWDAQNPHQHRFVPEKYACKDLRENFCRNPDGSEAP  
 WCFTSRPGLRVAFCYQIPRCTEEVVEGECYHGSGEQYRGSVSKTRKGVQCQHWSSETPHKPQFTPTSAPH  
 AGLEANFCRNPDGDHGPWCYTLDPETLFDYCALKRCDQPPSILDPPVQVQFEKCGKRVQDSNRLRVV  
 GGHPGNSPWTVSLRNRQGHFCGGLVKEQWVLTARQCIWSCHDPLTGYEVWLTINQNPQGEANLQRV  
 SVAKTVCGPAGSQLVLLKLERPILNHHVARICLPPEQYVVPPTNCEIAGWGESKGTSNSTVLHVAKMK  
 VISSQECNVKYRRRVQESEICTEGLLAPTACEGDYGGPLACYTHDCWVLQGLIIPNRVCARPRWPAIFT  
 RVSVFVDWINKVVQLE

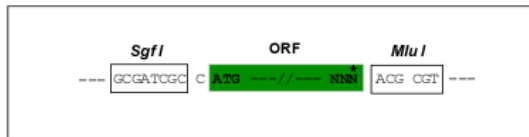
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**ACCN:** NM\_024352

**ORF Size:** 2148 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\\_024352.1](#), [NP\\_077328.1](#)

**RefSeq Size:** 2222 bp

**RefSeq ORF:** 2151 bp

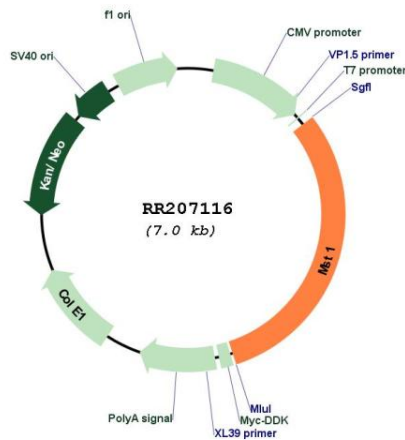
**Locus ID:** 24566

**Cytogenetics:** 8q32

**MW:** 80.7 kDa

**Gene Summary:** ligand for receptor tyrosine kinase STK/RON; may mediate germ cell-germ cell interaction during spermatogenesis, and acquisition of sperm motility and/or fertilizing capacity in the epididymis [RGD, Feb 2006]

**Product images:**



Circular map for RR207116