

## Product datasheet for **RR208719**

### **Nsmce1 (NM\_001039611) Rat Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Nsmce1 (NM\_001039611) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Nsmce1  
**Synonyms:** RGD1307760  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR208719 representing NM\_001039611  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGAAAGGCGTGCCACAGTGCCCGGCTTGCATGCAGAGTGCTTGAGCGCCCATGTGGATCTCCTTCCA  
ACATGCAGGGCAGCACGAGAAGAGCGGGAGCCATGACAGATGTGCATCGGCGCTTCCTCCAGCTGTGAT  
GACTCATGGCGTGTGGAGGAGTGGGAGTTAGGCGCCTGCAGAACCAGTCTACAAAGTCCACGACCGA  
AATGCTACTGTAGATAAGCTGGAGGACTTCATCAACAATCAACAGTGTCTGGAGTCTCTGTATATTG  
AGATAAAGAAAGGCATCACAGAGGATGACGGGAGACCCATTTATGCACTGGTGAATCTTGCTACAATTC  
AGTTTCCAAAATGGCCACGGATTTTGCAGAAAACGAGTTGGATCTGTTTAGAAAGGCTTTGGAAGTATC  
GTTGACTCAGAACTGGCTTTGCTTCTTCGACAAAATTTGAACCTAGTTGACCAACTCAAAGGTA  
AGATGAGGAAGAAGGAAGCGGAGCAGGTGCTGCAGAAAGTTTGTGCAGAGCAAGTGGCTGATTGAGAAGGA  
GGGGGAGTTCACCTTGCATGGCCGGCTATCTTGAGATGGAGCAGTTTATCCGAGAGAGCTACCCAGAT  
GCCGTGAAGATGTGTAACATCTGCCACAGCCTCCTTATCCAGGGTCAAAGCTGCGAGACGTGTGGAATTA  
GGATGCACCTTGCCTTGTGTGGCCAAGTACTTCCAGTCTACCGCCGAGCCACGCTGCCCCACTGTAATGA  
CTACTGGCCCCACGACATACCAGAAGTCTTCGACCCTGAGAAGGAGAGGGAGGCTGGCATCTCCAAGTCG  
AGCAGAAAGTCTTGGGACCCGGCAGCAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR208719 representing NM\_001039611  
Red=Cloning site Green=Tags(s)

MKGVRRHSARLACRVLERPCGSPSNMQGSTRRAGAMTDVHRRFLQLLMTHGVLEEWVRRLLQNHCYKVHDR  
 NATVDKLEDFINNINSVLESLEYIEIKKGITEDDGRPIYALVNLATTSVSKMATDFAENELDLFRKALELI  
 VDSETGFASSTNINLVDQLKGGKMRKKEAEQVLQKFVQSKWLEKEGEFTLHGRAILEMEQFIRESYDP  
 AVKMCNICHSLLIQGCSETCGIRMHLPVAKYFQSTAEPRCPHCNDYWPHDIPVDFDPEKEREAGISKS  
 SRKSLRTRQH

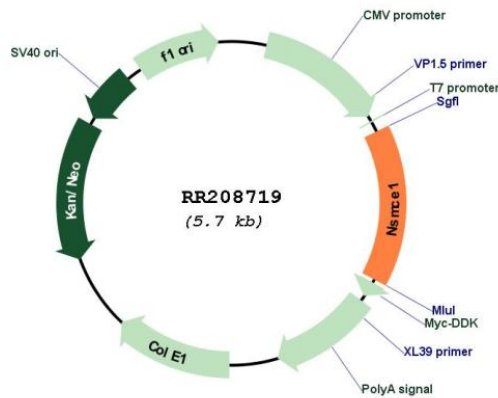
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001039611

**ORF Size:** 870 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_001039611.1</a> , <a href="#">NP_001034700.1</a>
<b>RefSeq Size:</b>	1214 bp
<b>RefSeq ORF:</b>	873 bp
<b>Locus ID:</b>	361645
<b>UniProt ID:</b>	<a href="#">Q499U6</a>
<b>Cytogenetics:</b>	1q36
<b>MW:</b>	33.3 kDa
<b>Gene Summary:</b>	RING-type zinc finger-containing E3 ubiquitin ligase that assembles with melanoma antigen protein (MAGE) to catalyze the direct transfer of ubiquitin from E2 ubiquitin-conjugating enzyme to a specific substrate. Within MAGE-RING ubiquitin ligase complex, MAGE stimulates and specifies ubiquitin ligase activity likely through recruitment and/or stabilization of the E2 ubiquitin-conjugating enzyme at the E3:substrate complex. Involved in maintenance of genome integrity, DNA damage response and DNA repair. NSMCE3/MAGEG1 and NSMCE1 ubiquitin ligase are components of SMC5-SMC6 complex and may positively regulate homologous recombination-mediated DNA repair.[UniProtKB/Swiss-Prot Function]