

Product datasheet for RN208719

Nsmce1 (NM_001039611) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Nsmce1 (NM_001039611) Rat Untagged Clone
Tag: Tag Free
Symbol: Nsmce1
Synonyms: RGD1307760
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN208719 representing NM_001039611
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGAAAGGCGTGCACCACAGTGCCCGGCTTGCATGCAGAGTGCTTGAGCGCCCATGTGGATCTCCTTCCA
ACATGCAGGGCAGCACGAGAAGAGCGGGAGCCATGACAGATGTGCATCGGCGCTTCCTCCAGCTGCTGAT
GACTCATGGCGTCTGGAGGAGTGGGAGTTAGGCGCCTGCAGAACCACTGCTACAAAGTCCACGACCGA
AATGCTACTGTAGATAAGCTGGAGGACTTCATCAACAATCAACAGTGTCTGGAGTCTCTGTATATTG
AGATAAAGAAAGGCATCACAGAGGATGACGGGAGACCCATTTATGCACTGGTGAATCTTGCTACAACCTC
AGTTTCCAAAATGGCCACGGATTTTGCAGAAAACGAGTTGGATCTGTTTAGAAAGGCTTTGGAACCTGATC
GTTGACTCAGAACTGGCTTTGCTTCTTCGACAAAACATTTTGAACCTAGTTGACCAACTCAAAGGTA
AGATGAGGAAGAAGGAAGCGGAGCAGGTGCTGCAGAAAGTTTGTGCAGAGCAAGTGGCTGATTGAGAAGGA
GGGGGAGTTCACCTTGCATGGCCGGCTATCTTGAGATGGAGCAGTTTATCCGAGAGAGCTACCCAGAT
GCCGTGAAGATGTGTAACATCTGCCACAGCCTCCTTATCCAGGGTCAAAGCTGCGAGACGTGTGGAATTA
GGATGCCTTGCCTTGTGTGGCCAAGTACTTCCAGTCTACCGCCGAGCCACGCTGCCCCACTGTAATGA
CTACTGGCCCCACGACATACCAGAAGTCTTCGACCCTGAGAAGGAGAGGGAGGCTGGCATCTCCAAGTCG
AGCAGAAAGTCTTGGGACCCGGCAGCACT**AG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001039611
Insert Size: 873 bp



OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none">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:	<u>NM_001039611.1</u> , <u>NP_001034700.1</u>
RefSeq Size:	1214 bp
RefSeq ORF:	873 bp
Locus ID:	361645
UniProt ID:	<u>Q499U6</u>
Cytogenetics:	1q36
Gene Summary:	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]