

Product datasheet for **MC201382**

Nsmce3 (NM_023239) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nsmce3 (NM_023239) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Nsmce3
Synonyms:	5730494G16Rik; AI642138; BB044375; HCA4; mage-g1; Mageg1; Ndn12
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC034892 sequence for NM_023239 GGCGGTTGCTGCTCCCGATCGCGGCTGCTCTCCGCCACCGGGGACATGTTGCAGAAGCCGAGGGGCCG CGGTGCGCCAGCACGCAGGCTGACCCGGAGCGGACTGGGAGGCGCTGGCAGGAAGGACCCAGCACG TCCCGCGCCGCGGGCGGCTCCTCCAGGGCTCCCGCGCTTCCCTGTCGGCCCGACCGTGGGGCCGCGCA CTCAGAAGCAGCTGGAGCTGAAGGTGGCCGAGCTGGTGCAGTTCCTGCTGATCAAGGACCAAGAAGAT CCCGATCAAGCGGACGGACATCCTGAAGCACGTGGTGGGCGACTACCGGACGTGTACCCCAACCTTCTG AAGCTGGCCGCGAGCGCTGCAATACGTGTTCCGGTACAAGCTGGTGGAGCTGGAGCCCAAGAGCCACA GCTACATCCTCATCAACATGCTGGAGCCGGTGGAGGCGGATGCGGAGATGAGGGGCGATCAGGGTACCCC CATCTCGGCCTGCTTATGATAGTCTGGGGCTTATCTTCATGAAAGGCAACACCATCACCGAGACTGAG GTCTGGGACTTCTGCGACGGCTCGGAGTGTACCCCACTAAGAAACACTTAATTTTTGGCGACCCAAAGA AACTCATTACCGAAGACTTTGTGCGGCAGCGCTACTTGGAGTACCGGAGGATACCCACACCGATCCTGT GGACTATGAATTACAGTGGGGCCCGGAACCAACCTGGAACAGCAAGATGAAAGTTCTTAAGTTTGTG GCCAAAGTCCATAACCAGGACCCCAAAGACTGGCCACACAATACTGCGAGGCTTTGGCAGATGAGGAGA GTAGGGCTAGACCTGCAACTGCTAGTGGCCAGCCACATCCTCTTGAACCTTTGAGTTATGGTCTGAGG GACTCTGGAGATCCAGTATAAAGAAGAGGGGGAATGGGGTTCGGAGGAAGCTTGATTCTGCTACGCATA AAGGCCTTGGAGCGTTAGGATGTGTTGCAGGGTTTTTTGTTTATTATTATTATTATGGTTT GGAGCTTTAAATTTTCATTTAATTGCTTTTTGTTTATAAAGAGTTTTCTAACTTTCTAAACCTAAATGA AATTGTATGATGCCAAACATATCAAGAAGGAACACTTTGGTAAATTGCTTTGATGTTCTAGACGATAAA GAAACAGGGTAGCTATTATCTTAATGACTAGTTCCTGGGAAAAATAAAGTCTTTTTAAATTTGAAAAA AAAAAAAAAAAAA
Restriction Sites:	EcoRI-NotI
ACCN:	NM_023239
Insert Size:	840 bp



[View online »](#)

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:	BC034892 , AAH34892
RefSeq Size:	1273 bp
RefSeq ORF:	840 bp
Locus ID:	66647
UniProt ID:	Q9CPR8
Cytogenetics:	7 C
Gene Summary:	Component of the SMC5-SMC6 complex, a complex involved in repair of DNA double-strand breaks by homologous recombination. The complex may promote sister chromatid homologous recombination by recruiting the SMC1-SMC3 cohesin complex to double-strand breaks. The complex is required for telomere maintenance via recombination in ALT (alternative lengthening of telomeres) cell lines and mediates sumoylation of shelterin complex (telosome) components which is proposed to lead to shelterin complex disassembly in ALT-associated PML bodies (APBs). In vitro enhances ubiquitin ligase activity of NSMCE1. Proposed to act through recruitment and/or stabilization of the Ubl-conjugating enzyme (E2) at the E3:substrate complex (By similarity). May be a growth suppressor that facilitates the entry of the cell into cell cycle arrest (PubMed:14593116).[UniProtKB/Swiss-Prot Function]