

## Product datasheet for **MC217001**

### **Nsmf (NM\_001177655) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Nsmf (NM_001177655) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Nsmf
Synonyms:	Jacob; Nelf
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC217001 representing NM\_001177655  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGGTGCCGCCCTCCAGGAGGAGGGCGCTGAGGAGCGAGGCCATGTCCTCGGTAGCGGCCAAAGTAA  
 GAGCAGCCCGAGCGTTTGGAGAGTACCTGTCCCAGAGTACCCTGAGAACCGCAACGGTGCAGACCCT  
 GCTGGCTGACGCCTACTCTGGCCACGACGGTCCCAGAGATGCAACCTGCACCCAGAACAAGCGCCG  
 CTCTCCCTCGTCTCCAATGGCCGATATGAGGGCAGCATCTCAGATGAGGCAGTCAGCGGGAAGCCGGCTA  
 TAGAGGGCCCCAGCCCCACGTGTACACCATCTCTAGAGAGCCCCGCTGCTACCTGGCTCTGAAGCTGA  
 AGCCATTGAGCTAGCAGTGGTAAAAGGGAGGAGACAGCGGGAACGGCACCCCTCACCACCAGCCAGCCC  
 CTGCGTGCCAGCCAGGCAGCGGGGAGGACATCAGCAGGCCCTGCCAAAGCTGGGCAGGAAGCCGCC  
 AGGGCTCAAAGAGTGCCAGGATGTGCCAGTGGTCCCTGGTCCCTCTTCTCGGGCCTTTGGGCTGGA  
 GCAGCCACCTCTACCTGAGGCTCCTGGCCGCCACAAGAAGCTGGAAGGATGTATAGCGTTGATGGAGTG  
 TCTGATGATGTCCCATCCGTACCTGGTCCCAAGGAAAACCTTTTCAGCTTCCAGACGGCAACCAAA  
 CTATGCAAGCGGTATTCAGGGGCTACGCGGAGAGGAAGCGTCGGAACCGGAGAATGATCCGCGTCTGT  
 AATCCAGAGGAACCTCCGCAACACCTGCGCATGGTTGGCAGTCGGCGGGTGAAGGCCAGAGCAGTGAC  
 CTACAGAGCTCACACTGCACCCTGGATGAGGCTTGTGAGGACCTGGACTGGGACACAGAGAAAGGTCTGG  
 AGGCCATGGCCTGCAACACCGAGGGCTTCTTGCCACCCAAGGTGCTCATCTCCTCCAAGGTGCCAAA  
 GGCCGAGTATATCCCTACTATCATCCGCAGAGATGACCCGTCCATCATTCCCCTCTACGACCAGAG  
 CATGCAACCTTCGAGGACATCCTGGAGGAAATAGAGAAGAAATGAACATCTATCACAAGGGGGCCAAGA  
 TCTGGAAGATGCTGATTTTCTGCCAGGGCGCCCTGGACACCTTTATTTGCTCAAGAACAAGGTGGCCAC  
 CTTTGCCAAAGTGGAGAAGGAAGGACATGATCCACTTCTGGAAGAGGCTGAGCCGCTGATGAGCAAG  
 GTGAACCCCGAGCCGAATGTCATCCACATCATGGGCTGCTACATTCTGGGGAACCCCTAACGGGGAGAAGC  
 TATTCCAGAACCTCAGGACCCTCATGACCCCTTACAAGGTTACCTTTGAGTCGCCTCTCGAGCTGTCTGC  
 CCAAGGGGAAGCAGATGATTGAGACCTACTTTGACTTCCGGCTGTACCGCCTGTGGAAGAGCCGCCAGCAC  
 TCAAAGCTGCTGGACTTTGATGACGCTCT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001177655

**Insert Size:** 1503 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:**

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\\_001177655.1](#), [NP\\_001171126.1](#)

**RefSeq Size:** 2853 bp

**RefSeq ORF:** 1503 bp

**Locus ID:** 56876

**UniProt ID:** [Q99NF2](#)

**Cytogenetics:** 2 A3

**Gene Summary:** Couples NMDA-sensitive glutamate receptor signaling to the nucleus and triggers long-lasting changes in the cytoarchitecture of dendrites and spine synapse processes. Part of the cAMP response element-binding protein (CREB) shut-off signaling pathway. Stimulates outgrowth of olfactory axons and migration of gonadotropin-releasing hormone (GnRH) and luteinizing-hormone-releasing hormone (LHRH) neuronal cells.[UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (5) lacks two alternate, in-frame exons, compared to variant 1. The resulting protein (isoform E) is shorter when it is compared to isoform A.