

Product datasheet for **MC217166**

Nsmf (NM_020276) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nsmf (NM_020276) 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: >MC217166 representing NM_020276
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGTGCCGCCCTCCAGGAGGAGGGCGCTGAGGAGCGAGGCCATGTCCTCGGTAGCGGCCAAAGTAA
 GAGCAGCCCGAGCGTTTGGAGAGTACCTGTCCCAGAGTACCCTGAGAACCGCAACGGTGCAGACCCT
 GCTGGCTGACGCCTACTCTGGCCACGACGGTCCCAGAGATGCAACCTGCACCCAGAACAAGCGCCG
 CTCTCCCTCGTCTCCAATGGCCGATATGAGGGCAGCATCTCAGATGAGGCAGTCAGCGGGAAGCCGGCTA
 TAGAGGGCCCCAGCCCCACGTGTACACCATCTCTAGAGAGCCCGCCCTGCTACCTGGCTCTGAAGCTGA
 AGCCATTGAGCTAGCAGTGGTAAAAGGGAGGAGACAGCGGGAACGGCACCCCTCACCACCACAGCCAGCCC
 CTGCGTGCCAGCCAGGCAGCAGCCGGGAGGACATCAGCAGGCCCTGCCAAAGCTGGGCAGGAAGCCGCC
 AGGGCTCAAAGAGTGCCAGGATGTGCCAGCTGGTCCCTGGTCCCTCTTCTCGGGCCTTTGGGCTGGA
 GCAGCCACCTCTACCTGAGGCTCCTGGCCGCCACAAGAAGCTGGAAAGGATGTATAGCGTTGATGGAGTG
 TCTGATGATGTCCCATCCGTACCTGGTCCCAAGGAAAACCTTTTCAGCTTCCAGACGGCAACCAAA
 CTATGCAAGCCATCTCGAACTTCCGCAACACCTGCGCATGGTTGGCAGTCGGCGGGTGAAGGCCAGAC
 GTTCGCTGAGCGTCGCGAACGGAGCTTACAGCCGGTCTGGAGCGACCCCAACCCCTATGAAAGCCGACCT
 TCCCACGACTCCCAGACAGCAGTGACCTACAGAGCTCACACTGCACCCTGGATGAGGCTTGTGAGGACC
 TGGACTGGGACACAGAGAAAGGTCTGGAGGCCATGGCCTGCAACACCGAGGGCTTCTTGCCACCCAAGGT
 CATGCTCATCTCTCCAAGGTGCCAAAGGCCGAGTATATCCCTACTATCATCCGAGAGATGACCCGTCC
 ATCATTCCCATCTCTACGACCAGCAGCATGCAACCTTCGAGGACATCCTGGAGGAAATAGAGAAGAAAT
 TGAACATCTATCACAAGGGGGCCAAGATCTGGAAGATGCTGATTTCTGCCAGGGCGCCCTGGACACT
 TTATTTGCTCAAGAACAAGGTGGCCACCTTTGCCAAAGTGGAGAAGGAAGGACATGATCCACTTCTGG
 AAGAGGCTGAGCCGCTGATGAGCAAGGTGAACCCCGAGCCGAATGTCATCCACATCATGGGCTGTACA
 TTCTGGGGAACCTAACGGGGAGAAGCTATTCCAGAACCTCAGGACCCTCATGACCCCTTACAAGGTTAC
 CTTTGAGTCGCTCTCGAGCTGTCTGCCAAGGGAAGCAGATGATTGAGACCTACTTTGACTTCCGGCTG
 TACCGCTGTGGAAGAGCCGCCAGCACTCAAAGCTGCTGGACTTTGATGACGCTCTG**TGA**

ACGGTACGGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_020276
- Insert Size:** 1530 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_020276.3](#), [NP_064672.2](#)

RefSeq Size: 2880 bp

RefSeq ORF: 1530 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 (3) lacks an alternate, in-frame exon, compared to variant 1. The resulting protein (isoform B) is shorter when it is compared to isoform A.