

Product datasheet for **MR221708**

Nsmf (NM_001177655) Mouse Tagged ORF Clone

Product data:

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



[View online »](#)

ORF Nucleotide Sequence:

>MR221708 representing NM_001177655
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGTGCCGCCCTCCAGGAGGAGGGCGCTGAGGAGCGAGGCCATGTCCTCGGTAGCGGCCAAAGTAA
 GAGCAGCCCGAGCGTTTGAGAGTACCTGTCCAGAGTACCCTGAGAACCGCAACGGTGCAGACCCT
 GCTGGCTGACGCCTACTCTGGCCACGACGGTCCCCAGAGATGCAACCTGCACCCAGAACAAGCGCCG
 CTCTCCCTCGTCTCCAATGGCCGATATGAGGGCAGCATCTCAGATGAGGCAGTCAGCGGGAAGCCGGCTA
 TAGAGGGCCCCAGCCCCACGTGTACACCATCTCTAGAGAGCCCGCCCTGCTACCTGGCTCTGAAGCTGA
 AGCCATTGAGCTAGCAGTGGTAAAAGGGAGGAGACAGCGGGAACGGCACCCCTCACCACCACAGCCAGCCC
 CTGCGTGCCAGCCAGGCAGCAGCGGGAGGACATCAGCAGGCCCTGCCAAAGCTGGGCAGGAAGCCGCC
 AGGGCTCAAAGAGTGCCAGGATGTGCCAGCTGGTCCCTGGTCCCTCTTCTCGGGCCTTTGGGCTGGA
 GCAGCCACCTCTACCTGAGGCTCCTGGCCGCCACAAGAAGCTGGAAGGATGTATAGCGTTGATGGAGTG
 TCTGATGATGTCCCATCCGTACCTGGTCCCAAGGAAAACCTTTTCAGCTTCCAGACGGCAACCAACA
 CTATGCAAGCGGTATTCAGGGGCTACGCGGAGAGGAAGCGTCGGAACCGGAGAATGATCCGCGTCTGT
 AATCCAGAGGAACCTCCGCAACACCTGCGCATGGTTGGCAGTCGGCGGGTGAAGGCCAGAGCAGTGAC
 CTACAGAGCTCACACTGCACCCTGGATGAGGCTTGTGAGGACCTGGACTGGGACACAGAGAAAGGTCTGG
 AGGCCATGGCCTGCAACACCGAGGGCTTCTGCCACCAAGGTGCTCATCTCTCCAAGGTGCCAAA
 GGCCGAGTATATCCCTACTATCATCCGAGAGATGACCCGTCCATCATTCCCCTCTACGACCAGAG
 CATGCAACCTTCGAGGACATCCTGGAGGAAATAGAGAAGAAATGAACATCTATCACAAGGGGGCCAAGA
 TCTGGAAGATGCTGATTTCTGCCAGGGCGCCCTGGACACCTTTATTTGCTCAAGAACAAGGTGGCCAG
 CTTTGCCAAAGTGAGAAGGAAGAGGACATGATCCACTTCTGGAAGAGGCTGAGCCGCTGATGAGCAAG
 GTGAACCCCGAGCCGAATGTCATCCACATCATGGGCTGCTACATTCTGGGGAACCCCTAACGGGGAGAAGC
 TATTCCAGAACCTCAGGACCCTCATGACCCCTTACAAGGTTACCTTTGAGTCGCCTCTCGAGCTGTCTGC
 CCAAGGGAAGCAGATGATTGAGACCTACTTTGACTTCCGGCTGTACCGCCTGTGGAAGAGCCGCCAGCAC
 TCAAAGCTGCTGGACTTTGATGACGCTCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR221708 representing NM_001177655
 Red=Cloning site Green=Tags(s)

MGAAASRRRALRSEAMSSVAAKVRAARAFGEYLSQSHPENRNGADHLLADAYSGHGDSPEMQPAPQNKRR
 LSLVSNRYEGSISDEAVSGKPAIEGPQPHVYTIISREPALLPGSEAEIELAVVKRRQRERHPPHHSQP
 LRASPGSSREDISRQCQSWAGSRQGSKECPGCAQLVPGPSSRAFLEQPPLPEAPGRHKKLERMYSVDGV
 SDDVPIRTWFPKENLFSFQTATTTMQAVFRGYAERKRRKRENDASVIQRNFRKHLRMVGSRRVKAQSSD
 LQSSHCTLDEACEDLDWDEKLEAMACNTEGFLPPKVMLISSKVPKAEYIPTIIRRDDPSIIPILYDHE
 HATFEDILEEIEKLNLYHKGAKIWKMLIFCQGGPGHLYLLKNKVATFAKVEKEEDMIHFWKRLSRLMSK
 VNPEPNVIHMGYILGNPNGEKLFQNLRTLMTPKVTFESPLELSAQGKQMIETYDFRFLYRLWKSQRH
 SKLLDFDDVL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

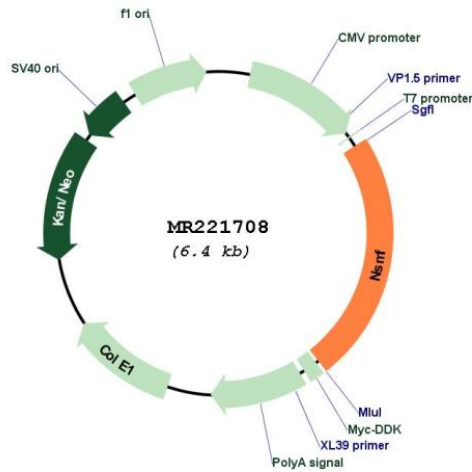
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001177655

ORF Size: 1500 bp

OTI Disclaimer: 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. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001177655.1, NP_001171126.1</u>
RefSeq Size:	2853 bp
RefSeq ORF:	1503 bp
Locus ID:	56876
UniProt ID:	<u>Q99NF2</u>
Cytogenetics:	2 A3
MW:	57 kDa
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]