

Product datasheet for **MR221712**

Nsmf (NM_001039387) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nsmf (NM_001039387) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nsmf
Synonyms:	Jacob; Nelf
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR221712 representing NM_001039387
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGTGCCGCCCTCCAGGAGGAGGGCGCTGAGGAGCGAGGCCATGTCCTCGGTAGCGGCCAAAGTAA
 GAGCAGCCCGAGCGTTTGGAGAGTACCTGTCCAGAGTACCCTGAGAACCGCAACGGTGCAGACCCT
 GCTGGCTGACGCCTACTCTGGCCACGACGGTCCCCAGAGATGCAACCTGCACCCAGAACAAGCGCCGC
 CTCTCCCTCGTCTCCAATGGCCGATATGAGGGCAGCATCTCAGATGAGGCAGTCAGCGGGAAGCCGGCTA
 TAGAGGGCCCCAGCCCCACGTGTACACCATCTCTAGAGAGCCCGCCCTGCTACCTGGCTCTGAAGCTGA
 AGCCATTGAGCTAGCAGTGGTAAAAGGGAGGAGACAGCGGGAACGGCACCCCTCACCACCACAGCCAGCCC
 CTGCGTGCCAGCCAGGCAGCAGCGGGAGGACATCAGCAGGCCCTGCCAAAGCTGGGCAGGAAGCCGCC
 AGGGCTCAAAGAGTGCCAGGATGTGCCAGTGGTCCCTGGTCCCTCTTCTCGGGCCTTTGGGCTGGA
 GCAGCCACCTCTACCTGAGGCTCTGGCCGCCACAAGAAGCTGGAAGGATGTATAGCGTTGATGGAGTG
 TCTGATGATGTCCCATCCGTACCTGGTCCCAAGGAAAACCTTTTCAGCTTCCAGACGGCAACCAACA
 CTATGCAAGCGGTATTCAGGGGCTACGCGGAGAGGAAGCGTCGGAACCGGAGAATGATCCGCGTCTGT
 AATCCAGAGGAATTCGCAACACCTGCGCATGGTTGGCAGTCGGCGGGTGAAGGCCAGACGTTCCGCT
 GAGCGTCGCGAACGGAGCTTCAGCCGGTCTGGAGCGACCCACCCTATGAAAGCCGACACTTCCCACG
 ACTCCCGAGACAGCAGTACCTACAGAGCTCACACTGCACCCTGGATGAGGCTTGTGAGGACCTGGACTG
 GGACACAGAGAAAGTCTGGAGGCCATGGCCTGCAACACCGAGGGCTTCTTCCACCAAGGTCATGCTC
 ATCTCCTCAAAGTGCCAAAGCCGAGTATACCTACTATCATCCGAGAGATGACCCGTCCATCATT
 CCATCCTACGACCACGACATGCAACCTTCGAGGACATCCTGGAGGAAATAGAGAAGAAATGAACAT
 CTATCACAAAGGGGCCAAGATCTGGAAGATGCTGATTTTCTGCCAGGGCGCCCTGGACACCTTTATTTG
 CTCAAGAACAAGGTGGCCACCTTTGCCAAAGTGGAGAAGGAAGAGGACATGATCCACTTCTGGAAGAGGC
 TGAGCCGCTGATGAGCAAGGTGAACCCGAGCCGAATGTATCCACATCATGGGCTGCTACATTCTGGG
 GAACCCTAACGGGGAGAAGCTATTCCAGAACCTCAGGACCCTCATGACCCCTTACAAGGTTACCTTTGAG
 TCGCCTCTCGAGCTGTCTGCCAAAGGAAGCAGATGATTGAGACCTACTTTGACTCCGGCTGTACCGCC
 TGTGGAAGAGCCGCCAGCACTCAAAGCTGCTGGACTTTGATGACGTCCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR221712 representing NM_001039387
 Red=Cloning site Green=Tags(s)

MGAASRRRALRSEAMSSVAAKVRARAFGEYLSQSHPENRNGADHLLADAYSGHDGSPMQPAPQNKRR
 LSLVSNGRYEGSISDEAVSGKPAIEGPQPHVYTSREPALLPGEAEAEIELAVVKRRRQRERHPHHHSQP
 LRASPGSSREDISRQCQSWAGSRQGSKECPGCAQLVPGPSSRAFLEQPPLPEAPGRHKLERMYSVDGV
 SDDVPIRTWFPKENLFSFQTATTTMQAVFRGYAERKRRKRENDASVSIQRNFRKHLRMVGSRRVKAQTFA
 ERRERSFSRSWSDPTPMKADTSHDSRSDLSQSHCTLDEACEDLDWDTEKGLEAMCNTEGFLPPKVML
 ISSKVPKAEYIPTIIRRDDPSIIPILYDHEHATFEDILEEIEKKLNIYHKGAKIWKMLIFCQGGPGHLYL
 LKNKVATFAKVEKEEDMIHFWKRLSRLMSKVNPEPNVIHIMGCYILGNPNGEKLFQNLRLMTPYKVTFE
 SPLELSAQGKQMIETYFDLRLYRLWKSQRHSLKLLDFDDVL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9075_h08.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001039387

ORF Size: 1593 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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).

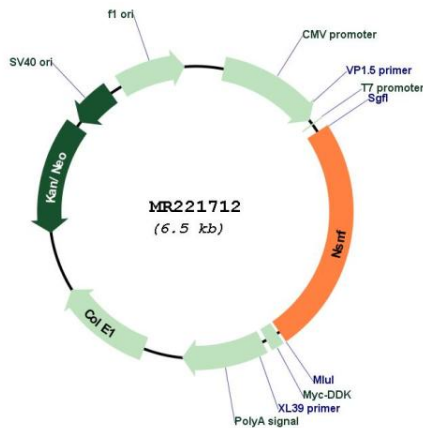
- Reconstitution Method:
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid 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_001039387.1](#), [NP_001034476.1](#)

RefSeq Size: 2943 bp
 RefSeq ORF: 1593 bp
 Locus ID: 56876
 UniProt ID: [Q99NF2](#)
 Cytogenetics: 2 A3
 MW: 60.1 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]

Product images:



Circular map for MR221712