

Product datasheet for **MG221706**

Nsmf (NM_001177654) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nsmf (NM_001177654) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nsmf
Synonyms:	Jacob; Nelf
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG221706 representing NM_001177654
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGTGCCGCCCTCCAGGAGGAGGGCGCTGAGGAGCGAGGCCATGTCCTCGGTAGCGGCCAAAGTAA
 GAGCAGCCCGAGCGTTTGGAGAGTACCTGTCCCAGAGTACCCTGAGAACCGCAACGGTGCAGACCCT
 GCTGGCTGACGCCTACTCTGGCCACGACGGTCCCAGAGATGCAACCTGCACCCAGAACAAGCGCCGC
 CTCTCCCTCGTCTCCAATGGCCGATATGAGGGCAGCATCTCAGATGAGGCAGTCAGCGGGAAGCCGCTA
 TAGAGGGCCCCAGCCCCACGTGTACACCATCTCTAGAGAGCCCCGCTGCTACCTGGCTCTGAAGCTGA
 AGCCATTGAGCTAGCAGTGGTAAAAGGGAGGAGACAGCGGGAACGGCACCCCTCACCACCAGCCAGCCC
 CTGCGTGCCAGCCAGGCAGCGGGGAGGACATCAGCAGGCCCTGCCAAAGCTGGGCAGGAAGCCGCC
 AGGGCTCAAAGAGTGCCAGGATGTGCCAGTGGTCCCTGGTCCCTCTTCTCGGGCCTTTGGGCTGGA
 GCAGCCACCTCTACCTGAGGCTCTGGCCGCCACAAGAAGCTGGAAGGATGTATAGCGTTGATGGAGTG
 TCTGATGATGTCCCATCCGTACCTGGTCCCAAGGAAAACCTTTTCAGCTTCCAGACGGCAACCAAA
 CTATGCAAGCGGTATTCAGGGGCTACGCGGAGAGGAAGCGTCGGAACCGGAGAATGATCCGCGTCTGT
 AATCCAGAGGAACCTCCGCAACACCTGCGCATGGTTGGCAGTCGGCGGGTGAAGGCCAGACGTTCCGCT
 GAGCGTCGCGAACGGAGCTTCAGCCGGTCTGGAGCGACCCACCCCTATGAAAGCCGACACTTCCCACG
 ACTCCCGAGACAGCAGTGACCTACAGAGCTCACACTGCACCCTGGATGAGGCTTGTGAGGACCTGGACTG
 GGACACAGAGAAAGTCTGGAGGCCATGGCCTGCAACACCGAGGGCTTCTTCCACCCAAGGTCATGCTC
 ATCTCCTCAAAGGTGCCAAAGGCCGAGTATACCTACTATCATCCGAGAGATGACCCGTCATCATT
 CCATCCTCTACGACCAGCATGCAACCTTCGAGGACATCCTGGAGGAAATAGAGAAGAAATGAACAT
 CTATCACAAAGGGGCAAGATCTGGAAGATGCTGATTTTCTGCCAGGGCGCCCTGGACACCTTTATTTG
 CTCAAGAACAAGGTGGCCACCTTTGCCAAAGTGGAGAAGGAAGAGGACATGATCCACTTCTGGAAGAGGC
 TGAGCCGCTGATGAGCAAGGTGAACCCGAGCCGAATGTATCCACATCATGGGCTGCTACATTCTGGG
 GAACCCTAACGGGGAGAAGAACCCTCAGGACCTCATGACCCCTTACAAGGTTACCTTTGAGTCGCTCTC
 GAGCTGTCTGCCAAGGGAAGCAGATGATTGAGACCTACTTTGACTTCCGGCTGTACCGCTGTGGAAGA
 GCCCCAGCACTCAAAGCTGCTGGACTTTGATGACGTCCTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG221706 representing NM_001177654
 Red=Cloning site Green=Tags(s)

MGAAASRRRALRSEAMSSVAAKVRAARAFGEYLSQSHPENRNGADHLLADAYSGHDGSPMQPAPQNKRR
 LSLVSNGRYEGSISDEAVSGKPAIEGPQPHVYTI SREPALLPGSEAEI ELAVVKRRRQRERHPHHHSQP
 LRASPGSSREDISRPCQSWAGSRQGSKECPGCAQLVPGPSSRAFLEQPPLPEAPGRHKLERMYSVDGV
 SDDVPIRTWFPKENLFSFQTATTTMQAVFRGYAERKRRKRENDASVIQRNFRKHLRMVGSRRVKAQTF
 ERRERSFSRSWSDPTPMKADTSHDSRDLQSSHCTLDEACEDLDWDTEKGLEAMACNTEGFLPPKVML
 ISSKVPKAEYIPTIIRDDPSIIPILYDHEHATFEDILEEIEKKLNIYHKGAKIWKMLIFCQGGPGHLYL
 LKNKVATFAKVEKEEDMIHFWKRLSRLMSKVNPEPNVIHIMGCYILGNPNGEKNLRLMTPYKVTTFESPL
 ELSAQKQMIETYDFRLYRLWKSQRQSKLLDFDDVL

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_001177654

ORF Size: 1581 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:

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_001177654.1](#), [NP_001171125.1](#)

RefSeq Size: 2934 bp

RefSeq ORF: 1584 bp

Locus ID: 56876

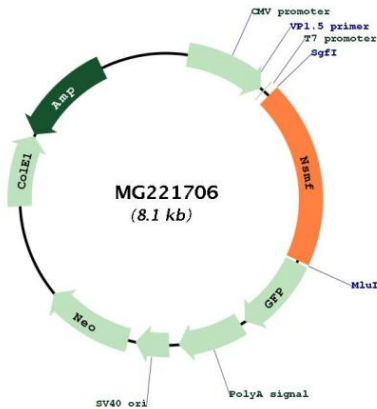
UniProt ID: [Q99NF2](#)

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]

Product images:



Circular map for MG221706