

Product datasheet for **MG221708**

Nsmf (NM_001177655) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nsmf (NM_001177655) 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:

>MG221708 representing NM_001177655
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGTGCCGCCCTCCAGGAGGAGGGCGCTGAGGAGCGAGGCCATGTCCTCGGTAGCGGCCAAAGTAA
 GAGCAGCCCGAGCGTTTGGAGAGTACCTGTCCCAGAGTACCCTGAGAACCGCAACGGTGCAGACCCT
 GCTGGCTGACGCCTACTCTGGCCACGACGGTCCCAGAGATGCAACCTGCACCCAGAACAAGCGCCG
 CTCTCCCTCGTCTCCAATGGCCGATATGAGGGCAGCATCTCAGATGAGGCAGTCAGCGGGAAGCCGGCTA
 TAGAGGGCCCCAGCCCCACGTGTACACCATCTCTAGAGAGCCCCGCTGCTACCTGGCTCTGAAGCTGA
 AGCCATTGAGCTAGCAGTGGTAAAAGGGAGGAGACAGCGGGAACGGCACCCCTCACCACCAGCCAGCCC
 CTGCGTGCCAGCCAGGCAGCAGCGGGAGGACATCAGCAGGCCCTGCCAAAGCTGGGCAGGAAGCCGCC
 AGGGCTCAAAGAGTGCCAGGATGTGCCAGCTGGTCCCTGGTCCCTTCTCGGGCCTTTGGGCTGGA
 GCAGCCACCTCTACCTGAGGCTCTGGCCGCCACAAGAAGCTGGAAGGATGTATAGCGTTGATGGAGTG
 TCTGATGATGTCCCATCCGTACCTGGTCCCAAGGAAAACCTTTTCAGCTTCCAGACGGCAACCAACA
 CTATGCAAGCGGTATTCAGGGGCTACGCGGAGAGGAAGCGTCGGAACCGGAGAATGATCCGCGTCTGT
 AATCCAGAGGAACCTCCGCAAACACCTGCGCATGGTTGGCAGTCGGCGGGTGAAGGCCCAGAGCAGTGAC
 CTACAGAGCTCACACTGCACCCTGGATGAGGCTTGTGAGGACCTGGACTGGGACACAGAGAAAGGTCTGG
 AGGCCATGGCCTGCAACACCGAGGGCTTCTTGGCACCCAAGGTGCTCATCTCCTCCAAGGTGCCAAA
 GGCCGAGTATATCCCTACTATCATCCGCAGAGTAGCCCGTCCATCATTCCCCTCTACGACCACGAG
 CATGCAACCTTCGAGGACATCCTGGAGGAAATAGAGAAGAAATGAACATCTATCACAAGGGGGCCAAGA
 TCTGGAAGATGCTGATTTTCTGCCAGGGCGCCCTGGACACCTTTATTTGCTCAAGAACAAGGTGGCCAC
 CTTTGCCAAAGTGGAGAAGGAAGAGGACATGATCCACTTCTGGAAGAGGCTGAGCCCGCTGATGAGCAAG
 GTGAACCCCGAGCCGAATGTCATCCACATCATGGGCTGCTACATTCTGGGGAACCCCTAACGGGGAGAAGC
 TATTCCAGAACCTCAGGACCCTCATGACCCTTACAAGGTTACCTTTGAGTCGCCTCTCGAGCTGTCTGC
 CCAAGGGAAGCAGATGATTGAGACCTACTTTGACTTCCGGCTGTACCGCCTGTGGAAGAGCCGCCAGCAC
 TCAAAGCTGCTGGACTTTGATGACGTCCTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG221708 representing NM_001177655
 Red=Cloning site Green=Tags(s)

MGAAASRRRLRSEAMSSVAAKVRARAFGEYLSQSHPENRNGADHLLADAYSGHDGSPMQPAPQNKRR
 LSLVSNRGYEGSISDEAVSGKPAIEGPQPHVYTI SREPALLPGSEAEIELAVVKRRRQRERHPHHHSQP
 LRASPGSSREDISRQCQSWAGSRQGSKECPGCAQLVPGPSSRAFGLQPPLEAPGRHKLERMYSVDGV
 SDDVPIRTWFPKENLFSFQTATTTMQAVFRGYAERKRRKRENDASVIQRNFRKHLRMVGSRRVKAQSSD
 LQSSHCTLDEACEDLDWDEKLEAMACNTEGFLPPKVMLISSKVPKAEYIPTIIRRDDPSIIPILYDHE
 HATFEDILEEIEKLNIIYHKAKIWKMLIFCQGGPHLYLLKNKVATFAKVEKEEDMIHFWRKLSRLMSK
 VNPEPNVIHIMGCYILGNPNGEKLFQNLRLMTPYKVTFFESPLELSAQGKQMIETYDFRLYRLWKSQRH
 SKLLDFDDVL

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



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:

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

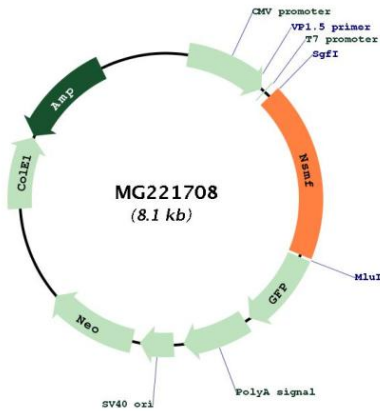
UniProt ID: [Q99NF2](#)

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]

Product images:



Circular map for MG221708