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Product datasheet for MC217458

Nsmf (NM_001177654) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nsmf (NM_001177654) 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:

>MC217458 representing NM_001177654
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGTGCCGCCGCCTCCAGGAGGAGGGCGCTGAGGAGCGAGGCCATGTCCTCGGTAGCGGCCAAAGTAA
GAGCAGCCCGAGCGTTTGGAGAGTACCTGTCCCAGAGTCACCCTGAGAACCGCAACGGTGCAGACCACCT
GCTGGCTGACGCCTACTCTGGCCACGACGGGTCCCCAGAGATGCAACCTGCACCCCAGAACAAGCGCCGC
CTCTCCCTCGTCTCCAATGGCCGATATGAGGGCAGCATCTCAGATGAGGCAGTCAGCGGGAAGCCGGCTA
TAGAGGGCCCCCAGCCCCACGTGTACACCATCTCTAGAGAGCCCGCCCTGCTACCTGGCTCTGAAGCTGA
AGCCATTGAGCTAGCAGTGGTAAAAGGGAGGAGACAGCGGGAACGGCACCCTCACCACCACAGCCAGCCC
CTGCGTGCCAGCCCAGGCAGCAGCCGGGAGGACATCAGCAGGCCCTGCCAAAGCTGGGCAGGAAGCCGCC
AGGGCTCCAAAGAGTGCCCAGGATGTGCCCAGCTGGTCCCTGGTCCCTCTTCTCGGGCCTTTGGGCTGGA
GCAGCCACCTCTACCTGAGGCTCCTGGCCGCCACAAGAAGCTGGAAAGGATGTATAGCGTTGATGGAGTG
TCTGATGATGTCCCCATCCGTACCTGGTTCCCCAAGGAAAACCTTTTCAGCTTCCAGACGGCAACCACAA
CTATGCAAGCGGTATTCAGGGGCTACGCGGAGAGGAAGCGTCGGAAACGGGAGAATGATTCCGCGTCTGT
AATCCAGAGGAACTTCCGCAAACACCTGCGCATGGTTGGCAGTCGGCGGGTGAAGGCCCAGACGTTCGCT
GAGCGTCGCGAACGGAGCTTCAGCCGGTCCTGGAGCGACCCCACCCCTATGAAAGCCGACACTTCCCACG
ACTCCCGAGACAGCAGTGACCTACAGAGCTCACACTGCACCCTGGATGAGGCTTGTGAGGACCTGGACTG
GGACACAGAGAAAGGTCTGGAGGCCATGGCCTGCAACACCGAGGGCTTCTTGCCACCCAAGGTCATGCTC
ATCTCCTCCAAGGTGCCAAAGGCCGAGTATATCCCTACTATCATCCGCAGAGATGACCCGTCCATCATTC
CCATCCTCTACGACCACGAGCATGCAACCTTCGAGGACATCCTGGAGGAAATAGAGAAGAAATTGAACAT
CTATCACAAGGGGGCCAAGATCTGGAAGATGCTGATTTTCTGCCAGGGCGGCCCTGGACACCTTTATTTG
CTCAAGAACAAGGTGGCCACCTTTGCCAAAGTGGAGAAGGAAGAGGACATGATCCACTTCTGGAAGAGGC
TGAGCCGCCTGATGAGCAAGGTGAACCCCGAGCCGAATGTCATCCACATCATGGGCTGCTACATTCTGGG
GAACCCTAACGGGGAGAAGAACCTCAGGACCCTCATGACCCCTTACAAGGTTACCTTTGAGTCGCCTCTC
GAGCTGTCTGCCCAAGGGAAGCAGATGATTGAGACCTACTTTGACTTCCGGCTGTACCGCCTGTGGAAGA
GCCGCCAGCACTCAAAGCTGCTGGACTTTGATGACGTCCTGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001177654

Insert Size: 1584 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_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] Transcript Variant: This variant (4) lacks an alternate, in-frame exon and uses a different splice site in the 3' coding region, compared to variant 1. The resulting protein (isoform C) is shorter when it is compared to isoform A.