

Product datasheet for **RN216814**

Nsmf (NM_001270628) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nsmf (NM_001270628) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Nsmf
Synonyms:	Jac; Jacob; Nelf
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN216814 representing NM_001270628
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGTGCCGCCCTCCAGGAGGAGGGCGCTGAGGAGCGAGGCCATGTCCTCGGTAGCGGCCAAAGTAA
 GAGCAGCCCGAGCGTTTGGAGAGTACCTGTCCCAGAGTACCCTGAGAACCGCAACGGTGCAGACCCT
 GCTGGCCGACGCCTACTCTGGCCACGAAGGTTCCCCAGAGATGCAGCCTGCACCCACAACAAGCGCCG
 CTCTCCCTCGTCTCCAATGGCCGCTATGAGGGCAGCATCTCAGATGAGGCAGTCAGCGGGAAGACGGCTA
 CAGAGGGCCCCAGCCCCGTGTGTACACCATCTCTAGAGAGCCAGCCCTGCTGCCGCTGAAGCCGA
 AGCCATTGAGCTAGCAGTGGTAAAGGGAGGAGGCAGCGGGAGCGGCACCCTCACCACCAGCCAGCCC
 CTGCGCGCCAGCCAGGCAGCCGTGAGGACATCAGCAGGCCCTGCCAAAGCTGGGCAGGAAGCCGCC
 AGGGCTCAAAGAATGCCCGGATGTGCCAGCTGGTCCCTGGTCCCTCCCTCGGGCTTCGGGTGGA
 ACAGCCACCTCTACCTGAGGCTTCGGCCGTACAAGAAGCTGGAAAGGATGTATAGTGTGATGGAGTG
 TCTGATGACGTCCCATCCGTACCTGGTTCCTCCCAAGGAAAACCTTTCCAGCTCCAGACGCCAACCAAA
 CTATGCAAGCGAACTTCCGCAAACACTGCGCATGGTTGGCAGTCGGCGGGTGAAGGCCAGACGTTTCGC
 TGAGCGCGCGAAACGGAGCTTACGCCGGTCTGGAGCGACCCACCCCTATGAAAGCCGACACCTCCAC
 GACTCCCAGACAGCAGTACCTACAGAGCTCACACTGCACCCTGGATGAGGCTTGTGAGGACCTGGACT
 GGGACACAGAGAAAGGCTGGAGGCCACGGCTGCGCACTGAGGGCTTCTTGCCACCCAAGGTCATGCT
 AATCTCTCCAAGGTGCCAAGGCCGAGTACATCCAACCATCATCCGCAGAGACGCCATCCATCATC
 CCCATCTCTATGACCATGAGCACGCAACGTTTCGAGGACATCTGGAGGAAATAGAGAAGAAGTTGAACA
 TCTATCACAAGGGGGCCAAGATCTGGAAGATGCTGATTTCTGCCAGGGCGGCCCTGGGCACCTTTATTT
 GCTCAAGAACAAGGTGGCCACCTTTGCCAAAGTGGAGAAGGAAGAGGACATGATCCACTTCTGGAAGAGG
 CTGAGCCGTCTGATGAGCAAAGTGAACCCTGAGCCAAATGTCATCCACATCATGGGCTGCTACATCTGG
 GAAACCTAACGGGGAGAAGCTATTCCAGAACCTCAGGACCCTCATGACCCTTACAAGGTTACCTTTGA
 GTCGCCCTGGAGCTCTCTGCCAAGGGAAGCAAATGATTGAGACCTACTTTGATTTCCGGCTGTACCGC
 CTGTGGAAAGCCGCCAGCACTCAAAGCTGCTGGACTTTGATGACGTCCTG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001270628
- Insert Size:** 1524 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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_001270628.1](#), [NP_001257557.1](#)

RefSeq Size: 2848 bp

RefSeq ORF: 1524 bp

Locus ID: 117536

UniProt ID: [Q9EPI6](#)

Cytogenetics: 3p13

Gene Summary: mouse homolog acts as a guidance molecule for olfactory axon projections and is involved in the neurophilic migration of LHRH cells [RGD, Feb 2006]

Transcript Variant: This variant (4) lacks two alternate in-frame exons compared to variant 1. The resulting isoform (4) has the same N- and C-termini but is shorter compared to isoform 1.