

## Product datasheet for **RR216762**

### **Nsmf (NM\_001270627) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Nsmf (NM_001270627) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nsmf
Synonyms:	Jac; Jacob; Nelf
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RR216762 representing NM\_001270627  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGTGCCGCCCTCCAGGAGGAGGGCGCTGAGGAGCGAGGCCATGTCCTCGGTAGCGGCCAAAGTAA  
 GAGCAGCCCGAGCGTTTGGAGAGTACCTGTCCAGAGTACCCTGAGAACCGCAACGGTGCAGACCCT  
 GCTGGCCGACGCCTACTCTGGCCACGAAGGTTCCCCAGAGATGCAGCCTGCACCCACAACAAGCGCCG  
 CTCTCCCTCGTCTCCAATGGCCGCTATGAGGGCAGCATCTCAGATGAGGCAGTCAGCGGGAAGACGGCTA  
 CAGAGGGCCCCAGCCCCGTGTGTACACCATCTCTAGAGAGCCAGCCCTGCTGCCGCTGAAGCCGA  
 AGCCATTGAGCTAGCAGTGGTAAAGGGAGGAGGCAGCGGGAGCGGCACCCTCACCACCAGCCAGCCC  
 CTGCGCGCCAGCCAGGCAGCCGTGAGGACATCAGCAGGCCCTGCCAAAGCTGGGCAGGAAGCCGCC  
 AGGGCTCAAAGAATGCCCGGATGTGCCAGCTGGTCCCTGGTCCCTCCCTCGGGCTTCGGGTGGA  
 ACAGCCACCTCTACCTGAGGCTTCGGCCGTACAAGAAGCTGGAAGGATGTATAGTGTGATGGAGTG  
 TCTGATGACGTCCCATCCGTACCTGGTCCCAAGGAAAACCTTTCCAGCTCCAGACGCAACCAACA  
 CTATGCAAGCCATCTCGAATTCGCAACACCTGCGCATGGTTGGCAGTCGGCGGGTGAAGGCCAGAG  
 CAGTGACCTACAGAGCTCACACTGCACCCTGGATGAGGCTTGTGAGGACCTGGACTGGGACACAGAGAAA  
 GGCTGGAGGCCACGGCTGCGACACTGAGGGCTTCTTGCACCCAAGGTCATGTAATCTCCTCAAGG  
 TGCCCAAGGCCGAGTACATCCAACCATCATCCGACAGACGACCATCCATCATCCCCATCCTCTATGA  
 CCATGAGCAGCAACGTTTCGAGGACATCCTGGAGGAAATAGAGAAGAAGTTGAACATCTATACAAGGG  
 GCCAAGATCTGGAAGATGCTGATTTCTGCCAGGGCGCCCTGGGCACCTTTATTTGCTCAAGAACAAG  
 TGCCACCTTTGCCAAAGTGGAGAAGGAAGGACATGATCCACTTCTGGAAGAGGCTGAGCCGTCTGAT  
 GAGCAAAGTGAACCTGAGCCAAATGTCATCCACATCATGGGCTGCTACATCCTGGGGAACCCCTAACGGG  
 GAGAAGCTATTCCAGAACCTCAGGACCCTCATGACCCCTTACAAGTTACCTTTGAGTCGCCCTGGAGC  
 TCTCTGCCAAGGGAAGCAAATGATTGAGACCTACTTTGATTTCCGGCTGTACCGCTGTGGAAAAGCCG  
 CCAGCACTCAAAGCTGCTGGACTTTGATGACGTCCTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR216762 representing NM\_001270627  
 Red=Cloning site Green=Tags(s)

MGAASRRRALRSEAMSSVAAKVRAARAFGEYLSQSHPENRNGADHLLADAYSGHEGSPMQPAPHNKRR  
 LSLVSNRYEGSISDEAVSGKTATEGPQPRVYTI SREPALLPGSEAEAEIELAVVKRRQRERHPHHSQP  
 LRASPGSSREDISRQCQSWAGSRQGSKECPGCAQLVPGSPRAFLEQPPLPEASGRHKKLERMYSVDGV  
 SDDVPIRTWFPKENPFSFQTATTTMQAISNFRKHLRMVGSRRVKAQSSDLQSSHCTLDEACEDLDWDEK  
 GLEATACDTEGFLPPKVMLISSKVPKAEYIPTIIRRDDPSIIPILYDHEHATFEDILEEIEKKLNIYHKG  
 AKIWKMLIFCQGGPHLYLLKNKVATFAKVEKEEDMIHFWKRLSRLMSKVNPEPNVIHIMGCYILGNPNG  
 EKLFQNLRTLMPYKVTFESPLELSAQGQMIETYDFRFLYRLWKSQRHSLKLLDFDDVL

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

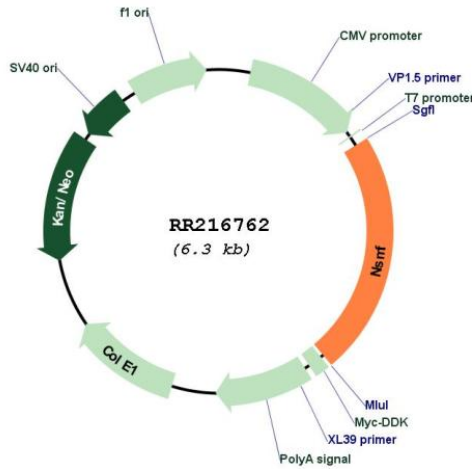
**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM\_001270627

ORF Size:

1437 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\\_001270627.1](#), [NP\\_001257556.1](#)

**RefSeq Size:** 2764 bp

**RefSeq ORF:** 1440 bp

**Locus ID:** 117536

**UniProt ID:** [Q9EPI6](#)

**Cytogenetics:** 3p13

**MW:** 53.9 kDa

**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]