

## Product datasheet for **RR216814**

### **Nsmf (NM\_001270628) Rat Tagged ORF Clone**

#### **Product data:**

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



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**ORF Nucleotide Sequence:**

>RR216814 representing NM\_001270628  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGGTGCCGCCCTCCAGGAGGAGGGCGCTGAGGAGCGAGGCCATGTCCTCGGTAGCGGCCAAAGTAA  
 GAGCAGCCCGAGCGTTTGGAGAGTACCTGTCCAGAGTACCCTGAGAACCGCAACGGTGCAGACCCT  
 GCTGGCCGACGCCTACTCTGGCCACGAAGGTTCCCCAGAGATGCAGCCTGCACCCACAACAAGCGCCG  
 CTCTCCCTCGTCTCCAATGGCCGCTATGAGGGCAGCATCTCAGATGAGGCAGTCAGCGGGAAGACGGCTA  
 CAGAGGGCCCCAGCCCCGTGTGTACACCATCTCTAGAGAGCCAGCCCTGCTGCCGCTGAAGCCGA  
 AGCCATTGAGCTAGCAGTGGTAAAGGGAGGAGGCAGCGGGAGCGGCACCCTCACCACCAGCCAGCCC  
 CTGCGCGCCAGCCAGGCAGCCGTGAGGACATCAGCAGGCCCTGCCAAAGCTGGGCAGGAAGCCGCC  
 AGGGCTCAAAGAATGCCCGGATGTGCCAGTGGTCCCTGGTCCCTCCCTCGGGCTTCGGGTGGA  
 ACAGCCACCTCTACCTGAGGCTTCGGCCGTACAAGAAGCTGAAAGGATGTATAGTGTGATGGAGTG  
 TCTGATGACGTCCCATCCGTACCTGGTCCCAAGGAAAACCCCTTCAGCTTCCAGACGCCAACCAAA  
 CTATGCAAGCGAACTTCCGCAAACACTGCGCATGGTTGGCAGTCGGCGGGTGAAGGCCAGACGTTTCGC  
 TGAGCGCGCGAAACGGAGCTTACGCCGGTCTGGAGCGACCCACCCCTATGAAAGCCGACACCTCCAC  
 GACTCCCAGACAGCAGTACCTACAGAGCTCACACTGCACCCTGGATGAGGCTTGTGAGGACCTGGACT  
 GGGACACAGAAAGGCTGGAGGCCACGGCTGCGACTGAGGGCTTCTTGCCACCCAAGGTCATGCT  
 AATCTCTCAAGGTGCCAAGGCCGAGTACATCCAACCATCATCCGACAGACGACCCATCCATCATC  
 CCCATCTCTATGACCATGAGCACGCAACGTTTCGAGGACATCCTGGAGGAAATAGAGAAGAAGTTGAACA  
 TCTATACAAGGGGGCCAAGATCTGGAAGATGCTGATTTTCTGCCAGGGCGGCCCTGGGCACCTTTATT  
 GCTCAAGAACAAGGTGGCCACCTTTGCCAAAGTGGAGAAGGAAGAGGACATGATCCACTTCTGGAAGAG  
 CTGAGCCGTCTGATGAGCAAAGTGAACCCTGAGCCAAATGTCATCCACATCATGGCTGCTACATCTGG  
 GAAACCTAACGGGGAGAAGCTATTCCAGAACCTCAGGACCCTCATGACCCTTACAAGGTTACCTTTGA  
 GTCGCCCTGGAGCTCTCTGCCAAGGGAAGCAAATGATTGAGACCTACTTTGATTTCCGGCTGTACCGC  
 CTGTGGAAAAGCCGCCAGCACTCAAAGCTGCTGGACTTTGATGACGTCTGT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR216814 representing NM\_001270628  
 Red=Cloning site Green=Tags(s)

MGAAASRRRALRSEAMSSVAAKVRARAFGEYLSQSHPENRNGADHLLADAYSGHEGSPMQPAPHNKRR  
 LSLVSNGRYEGSISDEAVSGKTATEGPQPRVYTI SREPALLPGSEAEI ELAVVKRRRQRERHPHHHSQP  
 LRASPGSSREDISRPCQSWAGSRQGSKECPGCAQLVPGSPRAFLEQPPLPEASGRHKKLERMYSVDGV  
 SDDVPIRTWFPKENPFSFQTATTTMQANFRKHLRMVGSRRVKAQTF AERRERSFSRSWSDPTPMKADTSH  
 DSRDSSDLQSSHCTLDEACEDLDWDEKLEATACDTEGFLPPKVMLISSKVPKAEYIPTIIRRDDPSII  
 PILDHEHATFEDILEEIEKKNLNIYHKAKIWKMLIFCQGGPHLYLLKNKVATFAKVEKEEDMIHFWR  
 LSRLMSKVNPEPNVIHIMGCYILGNPNGEKLFQNLRTLMTPTYKVTFESPLELSAQGKQMIETYDFRLYR  
 LWKSRQHSKLLDFDDVL

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



ACCN: NM\_001270628

ORF Size: 1521 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\\_001270628.1](#), [NP\\_001257557.1](#)

RefSeq Size: 2848 bp

RefSeq ORF: 1524 bp

Locus ID: 117536

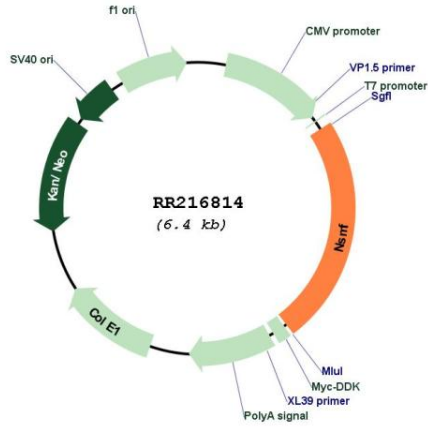
UniProt ID: [Q9EPI6](#)

Cytogenetics: 3p13

**MW:** 57.3 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]

**Product images:**



Circular map for RR216814