

## Product datasheet for **RR203702**

### Nsf (NM\_021748) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Nsf (NM_021748) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nsf
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide  
Sequence:

>RR203702 representing NM\_021748  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCGGGCCGACTATGCAAGCTGCGAGATGCCCTACTGATGAATTGTCTCTAAGCAACTGTGCAGTTG  
 TGAACGAAAAGGATTACCACTCTGGCCAGCATGTGATGGTGAGGACGTCCCCAACCACAAAGTACATATT  
 TACGCTGCGGACCCATCCGTCCGTGGTCCCGGATGCATCGCGTTCAGCTTACCCAGCGAAAATGGGCT  
 GGACTTTCTATTGGGCAGGACATAGAAGTCGCCTTGATTCTGTTGACAAAGCCAAGCAGTGCATCGGCA  
 CAATGACCATCGAGATCGACTTCTGCAGAAAAAAGAACATCGACTCCAACCCTTACGACACCGACAAGAT  
 GGCTGCCGAGTTCATCCAGCAGTTCAACCACCAGGCCCTTCTCAGTGGGACAGCAGCTTGTCTTTAGCTTC  
 AATGATAAGCTCTTTGGATTGCTGGTGAAGGACATCGAAGCCATGGATCCAGCATCCTGAAGGGAGAGC  
 CTGCGTCAGGTAAGGCGAGAAGATTGAAGTAGGACTGGTGGTGGAAACAGTCAAGTTGCATTTGAAAA  
 AGCAGAAAACCTCATCACTCAATCTTATTGGCAAGGCTAAAACCAAGGAAAATCGCCAGTCTATCATCAAT  
 CCCGACTGGAACCTTTGAGAAAATGGGGATCGGCGGTCTGGATAAAGGAGTTTTTCAGATATTTCCGACGAG  
 CATTGCTTCTCGGGTGTCCCTCCGGAGATCGTGGAAACAAATGGGTTGCAAACATGTTAAAGGCATCCT  
 GTTATACGGACCCCTGGTTGTGGTAAGACTCTTTGGCTCGACAGATTGGCAAGATGCTGAATGCAAGA  
 GAGCCCAAGGTGGTCAATGGGCCGAAATCCTTAAACAAATATGTGGGAGAATCAGAGGCCAACATCCGCA  
 AGCTCTTTGCTGATGCAGAAGAGGAGCAGAGACGGCTCGGTGCCAACAGCGGCCTGCACATCATCATCTT  
 TGATGAAATCGACGCCATCTGCAAGCAGAGAGGGAGCATGGCCGGCAGCACCGGGGTGCACGACACTGTG  
 GTCAACCAGCTGCTGTCCAAGATCGATGGCGTCGAGCAGCTGAACAACATCCTCGTTATTGGAATGACCA  
 ATCGACCAGATTTGATTGATGAGGCTCTCCTTCGACCTGGAAGACTGGAAGTTAAGATGGAGATAGGCTT  
 ACCAGATGAGAAGGGCCGACTGCAGATCCTTCCACATCCACACAGCAAGGATGCGAGGGCACCAGTACTG  
 TCTGCGGATGTGGACATCAAGGAACTGGCTGTGGAGACTAAGAATTTTCAGTGGCGCCGAGCTGGAGGGCC  
 TGGTGCAGCAGCGCAGTCCACAGCCATGAACAGACACATAAAGGCCAGCACAAAAGTGGAAAGTAGACAT  
 GGAGAAGGCAGAGAGCCTGCAGGTGACAAGAGGGGACTTCTCGCTTCCCTGGAGAATGATATCAAACCG  
 GCATTCGGCACAACCAAGAGGACTATGCAAGTTACATTATGAATGGAATCATCAAGTGGGGTGACCCCG  
 TGACCCGAGTCTCGACGACGGAGAGCTGCTGGTCCAGCAGACTAAAAACAGTGACCGCACACCGCTGGT  
 TAGCGTCTTCTGGAAGGCCCTCCTCACAGCGGAAGACTGCCCTCGCTGCAAAGATTGCCGAGGAATCA  
 AACTTCCCCTTCAAGATCTGCTCCCCGATAAGATGATTGGGTTCTCTGAGACAGCCAAGTGTGAGG  
 CCATGAAGAAGATCTTTGATGATGCTTACAAATCTCAGCTCAGTTGTGTGGTCTGGATGACATTGAGAG  
 GTTGTCTGATTACGTCCCATCGGCCCCCGTTCTCCAACCTGGTGTACAAGCTCTGCTCGTGTACTG  
 AAAAAGGCACCTCCTCAGGGCCGCAAGCTTCTCATCATCGGGACCACCAGCCGAAAAGATGCTCTGCAGG  
 AAATGGAGATGCTCAACGCCTTACGACCACCATCCACGTGCCAACATCGCCACAGGAGAGCAGCTGCT  
 GGAAGCTCTGGAGCTTTTGGGCAACTTCAAAGATAAGGAACGCACCACAATTGCTCAGCAAGTCAAAGGG  
 AAGAAAGTCTGGATAGGAATCAAGAAAGTACTAATGTTGATTGAGATGTCCCTGCAGATGGACCCTGAGT  
 ACCGTGTGAGGAAATCTTGGCCCTCATGAGAGAAGAAGGCGCTAGTCCCCTGGACTTTGAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR203702 representing NM\_021748  
 Red=Cloning site Green=Tags(s)

MAGRMTQAARCPDDELSLNCVAVNEKDYQSGQHVMVRTSPNHKYIFTLRTHPSVVPGCIAFSLPQRKWA  
 GLSIGQDIEVALYSFDKAKQCIGTMTIEIDFLQKKNIDSNPYDTKMAAEFIQQFNHQAFVSGQQLVFSF  
 NDKLFGLLVKDIEAMDPSILKGEFASGRQKIEVGLVVGNSQVAFEKAENSSLNLIGKAKTKENRQSIIN  
 PDWNFEKMGIGGLDKEFSDIFRRAFASRVFPPEIVEQMGCKHVKGILLYGPPGCGKTLARQIGKMLNAR  
 EPKVVNGPEILNKYVGESEANIRKLFADAEEEQRRLGANSGLHIIIFDEIDAICKQRGSMAGSTGVHDTV  
 VNQLLSKIDGVEQLNNILVIGMTNRPDLIDEALLRPGRLVMEIGLPDEKGRQLIHLIHTARMRGHQLL  
 SADVDIKELAVETKNFSGAELEGLVRAAQSTAMNRHIKASTKVEVDMKAESLQVTRGDFLASLENDIKP  
 AFGTNQEDYASYIMNGI IKWGDVPVTRVLDGELLVQQTKNSDRTPVSVLLEGPPhSGKTAALAAIAEES  
 NFPFIKICSPDKMIGFSETAKCQAMKKIFDDAYKSQLSCVVVDDIERLLDYVPIGPRFSNLVLQALLVLL  
 KKAPPQGRKLLIIGTTSRKDVLQEMEMLNAFSTTIHVPNIATGEQLLEALELLGNFKDKERTTIAQVVKG  
 KKVWIGIKLLMLIEMSLQMDPEYRVRKFLALMREEGASPLDFD

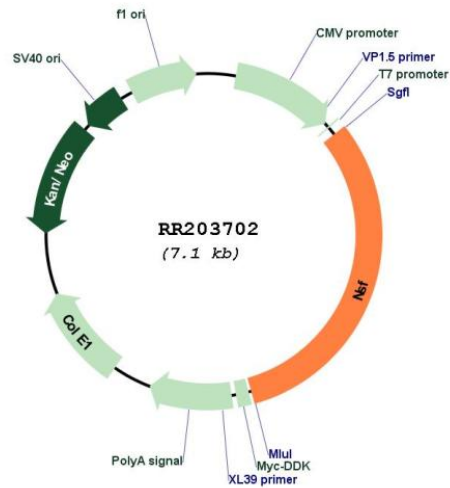
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



**Plasmid Map:**


**ACCN:** NM\_021748

**ORF Size:** 2232 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\\_021748.1](#), [NP\\_068516.1](#)

**RefSeq Size:** 2764 bp

**RefSeq ORF:** 2235 bp

**Locus ID:** 60355  
**UniProt ID:** [Q9QUL6](#)  
**Cytogenetics:** 10q32.1  
**MW:** 82.7 kDa  
**Gene Summary:** binds AMPA receptor GluR2 subunit and acts to disrupt GluR2-PICK1 interactions; may play a role in AMPA receptor trafficking and stabilization [RGD, Feb 2006]