

## Product datasheet for **RR204768**

### **Nfs1 (NM\_053462) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Nfs1 (NM_053462) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nfs1
Synonyms:	Nifs
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RR204768 representing NM\_053462  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGTGGGCTCTGTTGCTGGGAACATGCTGCTGCGAGCCGCTTGGAGCGAGCGTCGTTGGCGGCTACCT  
 CTGTGGCCCTGCGAAGGTCCTCGGTGCCACCCGGGACTGCGCCTGCGGTTGTAGATCATGCCCCCA  
 TTCGGCTGTTCCCTCCGAGGCAGAGGCAGTGCTGCGACCTCTCTATATGGACGTGACGGCTACAACCTCT  
 CTGGACCCAGGGTGCTTGTATGCCATGCTCCCATACCTTGTCACTACTATGGGAACCCACATTCTCGGA  
 CTCATGCGTATGGCTGGGAGAGCGAGGCAGCCATGGAACGTGCTCGCCAGCAGGTAGCGTCTCTGATTGG  
 AGCGGATCCTCGGGAGATCATTTCCTACTAGTGGAGCTACGGAATCCAACAACATAGCAATTAAGGGAGTG  
 GCCAGTTCTACAGGTCACGAAAAAGCACTTGGTCACCACGCAGACAGAACACAAGTGCCTGCTGGATT  
 CGTGCCGCTCCCTGGAAGCTGAGGGCTTTCGGGCACTTACCTCCCGTTTCAAGAGTGGGATCATTGA  
 CTTAAAGGAACTAGAGGCTGCCATCCAGCCAGATACCAGCCTGGTCTCCGTTATGACTGTAACAATGAG  
 ATTGGAGTAAAGCAACCGATTGCAGAAATAGGCCAGATTTGCAGTTCAGAAAGCTGACTTCCATACTG  
 ATGCAGCCCAAGCTGTTGGGAAAATCCCACTTGTATGTCATGACATGAAAATTGATCTCATGAGTATCAG  
 TGGTCACAACTCTACGGCCCTAAAGGGTTGGTGTCTATATCCGCCGTAGGCCCGGGTGCCTGTG  
 GAGGCCCTACAAAGTGGAGGCGGGCAGGAGCGGGTATGCGGTCTGGGACAGTGCACACCCCTTGGTGG  
 TGGCCTGGGAGCTGCATGTGAGCTGGCACAACAAGAGATGGAGTACGACCATAAACGGATCTCAAAGTT  
 AGCAGAGCGACTCATACAGAAGATAATGAAGAACCTTCCAGATGTGGTATGAACGGGGACCCGAAGCAG  
 CACTACCCTGGCTGTATCAACCTCTCCTTTCGCTATGTGAAGGGGAAAGCCTGCTGATGGCACTCAAGG  
 CGTTGCCCTGTCTCGGGGAGTGCCTGCACTTCCGCATCATTGGAGCCCTCGTATGCTCAGAGCCAT  
 CGGTACGGATGAGGATTTAGCACACTCCTCTATCAGGTTTCGGCATCGGCCGCTTCACTACAGAGGAGGAG  
 GTAGACTACACCGTGCAGAAGTGCATCCACCATGTGAAACGTCTTCGAGAATGAGTCTCTCTGGGAGA  
 TGGTGCAGGATGGCATTGACCTCAAGAGCATCAAGTGGACCCAGCAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR204768 representing NM\_053462  
 Red=Cloning site Green=Tags(s)

MVGSVAGNMLLRAAWRRASLAATSVALRRSSVPTRGLRLRVVDHAPHSAPVSEAEAVLRPLYMDVQATTP  
 LDPRVLDAMLPLYVNYGNPHSRTHAYGWESEAMERARQQVASLIGADPREIIFTSGATESNNIAIKGV  
 ARFYRSRKKHLVTTQTEHKCVLDSCRSLAEAGFRVYLPVQKSGIIDLKELEAAIQPDTSLVSVMTVNNE  
 IGVKQPIAEIGQICSSRKL YFHDTAAQAVGKIPLDVNDMKIDLMSISGHKLYGPKGVGAIYIRRRPRVRV  
 EALQSGGGQERGMRSVTPTPLVVGLGAACELAQQEMEYDHKRI SKLAERLIQKIMKNLPDVMNGDPKQ  
 HYPGCINLSFAYVEGESLLMALKDVALSSGSACTSASLEPSYVLRRAIGTDEDLAHSSIRFGIGRFTTEEE  
 VDYTVQKCIHHVKRLREMSPLWEMVQDGDIDLKS IKWTQH

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

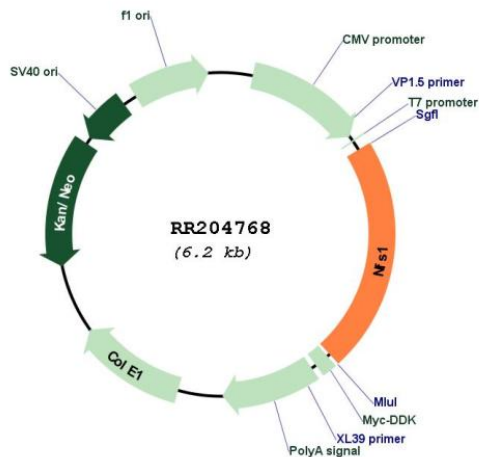
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_053462

ORF Size: 1377 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\\_053462.2](#), [NP\\_445914.2](#)

**RefSeq Size:** 2038 bp

**RefSeq ORF:** 1380 bp

**Locus ID:** 84594

**Cytogenetics:** 3q42

**MW:** 50.7 kDa

**Gene Summary:** a putative cysteine desulfurase [RGD, Feb 2006]