

Product datasheet for **MR207324**

Nfs1 (NM_010911) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nfs1 (NM_010911) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nfs1
Synonyms:	AA987187; m-Nfs1; m-Nfs1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR207324 representing NM_010911
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGTGGGCTCTGTGGCTGGGAACATGCTGCTGCGAGCCGCTTGGAGCGGGCGTCTTGGCGGCTACCT
 CCTTGGCCCTGGGAAGGTCTCGGTGCCACCCGGGACTGCGCCTGCGGTTGTAGATCATGGCCCCA
 TTCGCCTGTTCACTCAGAGGCAGAGGCAGTGCTGCGACCTCTCTACATGGACGTACAGGCCACCCTCT
 CTGGATCCAGAGTGCTTGTATGCCATGCTCCCATACCTTGTCACTACTATGGGAACCTCATTCTCGGA
 CTCATGCATATGGCTGGGAGAGCGAGGCAGCCATGGAACGTGCTCGCCAGCAAGTAGCATCTCTGATTGG
 AGCTGATCCTCGGGAGATCATTTCCTACTAGTGGAGCTACTGAGTCCAACAACATAGCAATTAAGGGAGTG
 GCCAGTTCTACAGGTCAAGGAAAAACACTTGGTCACAACCCAGACAGAACACAATGTGTCTGGATT
 CCTGCCGCTCCCTGGAAGCTGAGGGCTTTCGGGTCACTTACCTCCCTGTGCAGAAGAGCGGGATCATTGA
 CTTAAAGGAACTAGAGGCTGCCATCCAGCCAGACACCAGCCTGGTCTCCGTTATGACTGTGAACAATGAA
 ATTGGAGTAAAGCAACCAATTGCAGAAATAGGGCAGATTTGTAGTTCAGAAAGGTGACTTCCACACTG
 ATGCCGCCAAGCGGTTGGGAAAATCCCACTTGACGTCAATGACATGAAGATTGATCTCATGAGCATCAG
 CGGTACAAAACCTATAGGCCCTAAAGGGTTGGTGTCTATATCCGCCGTAGGCCCGGGTACGTGTG
 GAGGCCCTACAGAGTGGAGGCGGGCAGGAGCGGGTATGCGGTCTGGGACAGTCCCCACACCCTTGGTGG
 TGGCCTGGGAGCTGCATGTGAGTTGGCACAACAAGAGATGGAATACGACCATAAGCGGATCTCAAAGTT
 AGCAGAGCGACTGGTACAGAACAATAAGAAATCTTCCAGATGTGGTAAAGACGGGACCCGAAGCAG
 CACTACCCTGGCTGTATCAACCTCTCCTTCGCGTATGTGGAAGGAGAGAGCCTGCTGATGGCCCTCAAGG
 ATGTGGCCTTGTCTCAGGGAGTGCCTGCACTTCTGCATCATTGGAGCCCTTTATGCTCAGAGCAAT
 TGGTACCGATGAGGATTTAGCACACTCCTCTATCAGGTTTGGCATCGGCCGCTTCACTACAGAAGAGGAG
 GTGGACTACACGGCGGAGAAGTGCATCCACCACGTGAAGCGCCTTCGAGAATGAGTCTCTCTGGGAGA
 TGGTCCAGGATGGCATTGACCTCAAGAGCATCAAGTGGACCCAGCAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207324 representing NM_010911
 Red=Cloning site Green=Tags(s)

MVGSVAGNMLLRAAWRRASLAATSLALGRSSVPTRGLRLRVVDHGHSPVHSEAEAVLRPLYMDVQATTP
 LDPRVLDAMPLPYLVNYYGNPHSRTHAYGWESEAMERARQQVASLIGADPREIIFTSGATESNNIAIKGV
 ARFYRSRKKHLVTTQTEHKCVLDSCRSLAEGRVYLPVQKSGIIDLKELEAAIQPDTSLVSVMTVNNE
 IGVKQPIAEIGQICSSRKVYFHTDAAQAVGKIPLDVNDMKIDLMSISGHKLYGPKGVGAIYIRRRPRVRV
 EALQSGGGQERGMRSQVPTPLVVGGLAAACELAQQEMEYDHKRISKLAERLVQNIIMKNLPDVMNGDPKQ
 HYPGCINLSFAYVEGESLLMALKDVALSSGSACTASLEPSYVLRRAIGTDEDLAHSSIRFGIGRFTTEEE
 VDYTAEKCIHHVKRLREMSPLWEMVQDGIDLKSIKWTQH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9038_e08.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_010911

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_010911.2](#), [NP_035041.2](#)

RefSeq Size: 2053 bp

RefSeq ORF: 1380 bp

Locus ID: 18041

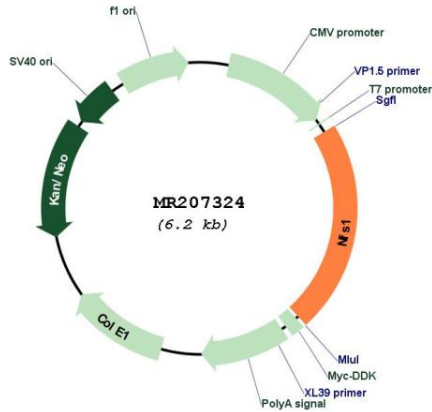
UniProt ID: [Q9Z1J3](#)

Cytogenetics: 2 H1

MW: 51 kDa

Gene Summary: Catalyzes the removal of elemental sulfur from cysteine to produce alanine. It supplies the inorganic sulfur for iron-sulfur (Fe-S) clusters. May be involved in the biosynthesis of molybdenum cofactor (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR207324