

Product datasheet for **MG207324**

Nfs1 (NM_010911) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nfs1 (NM_010911) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nfs1
Synonyms:	AA987187; m-Nfs1; m-Nfs1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207324 representing NM_010911
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGTGGGCTCTGTGGCTGGGAACATGCTGCTGCGAGCCGCTTGGAGCGGGCGTCTTGGCGGCTACCT
 CCTTGGCCCTGGGAAGGTCCTCGGTGCCACCCGGGACTGCGCCTGCGGTTGTAGATCATGGCCCCA
 TTCGCCTGTTCACTCAGAGGCAGAGGCAGTGCTGCGACCTCTCTACATGGACGTACAGGCCACCCTCT
 CTGGATCCAGAGTGCTTGTATGCCATGCTCCCATACCTTGTCACTACTATGGGAACCTCATTCTCGGA
 CTCATGCATATGGCTGGGAGAGCGAGGCAGCCATGGAACGTGCTCGCCAGCAAGTAGCATCTCTGATTGG
 AGCTGATCCTCGGAGATCATTTCCTACTAGTGGAGCTACTGAGTCCAACAACATAGCAATTAAGGGAGTG
 GCCAGTTCTACAGGTCAAGGAAAAACACTTGGTCACAACCCAGACAGAACACAATGTGTGCTGGATT
 CCTGCCGCTCCCTGGAAGCTGAGGGCTTTCGGGTCACTTACCTCCCTGTGCAGAAGAGCGGGATCATTGA
 CTTAAAGGAACTAGAGGCTGCCATCCAGCCAGACACCAGCCTGGTCTCCGTTATGACTGTGAACAATGAA
 ATTGGAGTAAAGCAACCAATTGCAGAAATAGGGCAGATTTGTAGTTCAGAAAGGTGACTTCCACACTG
 ATGCCGCCAAGCGGTTGGGAAAATCCCACTTGACGTCATGACATGAAGATTGATCTCATGAGCATCAG
 CGGTACAAAACCTATAGGCCCTAAAGGGTTGGTGTATCTATATCCGCCGTAGGCCCGGGTACGTGTG
 GAGGCCCTACAGAGTGGAGGCGGGCAGGAGCGGGTATGCGGTCTGGGACAGTGCACACCCCTTGGTGG
 TGGGCTGGGAGCTGCATGTGAGTTGGCACAACAAGAGATGGAATACGACCATAAGCGGATCTCAAAGTT
 AGCAGAGCGACTGGTACAGAACAATAAGAAGATCTTCCAGATGTGGTAAAGCGGGGACCCGAAGCAG
 CACTACCCTGGCTGTATCAACCTCTCCTTCGCGTATGTGGAAGGAGAGAGCCTGCTGATGGCCCTCAAGG
 ATGTGGCCTTGTCTCAGGGAGTGCCTCACTTCTGCATCATTGGAGCCCTTTATGCTCCTCAGAGCAAT
 TGGTACCGATGAGGATTTAGCACACTCCTCTATCAGGTTTGGCATCGGCCGCTTCACTACAGAAGAGGAG
 GTGGACTACACGGCGGAGAAGTGCATCCACCACGTGAAGCGCCTTCGAGAATGAGTCTCTCTGGGAGA
 TGGTCCAGGATGGCATTGACCTCAAGAGCATCAAGTGGACCCAGCAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG207324 representing NM_010911
 Red=Cloning site Green=Tags(s)

MVGSVAGNMLLRAAWRRASLAATSLALGRSSVPTRGLRLRVVDHGHSPVHSEAEAVLRPLYMDVQATTP
 LDPRVLDAMLPLYLVNYYGNPHSRTHAYGWESEAAAMERARQQVASLIGADPREIIFTSGATESNNIAIKGV
 ARFYRSRKKHLVTTQTEHKCVLDSCRSLAEGRVYLYPVQKSGIIDLKELEAAIQPDTSLVSVMTVNNE
 IGVKQPIAEIGQICSSRKVYFHTDAAQAVGKIPLDVNDMKIDLMSISGHKLYGPKGVGAIYIRRRPRVRV
 EALQSGGGQERGMRSQVPTPLVVGLGAACELAQQEMEYDHKRI SKLAERLVQNI MNKLPDVMNGDPKQ
 HYPGCINLSFAYVEGESLLMALKDVALSSGSACTASLEPSYVLRRAIGTDEDLAHSSIRFGIRFTTEEE
 VDYTAEKCIHHVKRLREMSPLWEMVQDGIDLKS IKWTQH

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

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:	<ol style="list-style-type: none">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:	<u>NM_010911.2</u> , <u>NP_035041.2</u>
RefSeq Size:	2053 bp
RefSeq ORF:	1380 bp
Locus ID:	18041
UniProt ID:	<u>Q9Z1J3</u>
Cytogenetics:	2 H1
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]