

Product datasheet for **MG201993**

Nfu1 (NM_020045) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Nfu1 (NM_020045) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Nfu1
Synonyms: 0610006G17Rik; CGI-33; Hirip5
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG201993 representing NM_020045
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTTTATCAAACACAAGACACCCCAAATCCCAACAGCTTAAAGTTTATACCAGGAAAGCCGTTCTTG
 AGACGAGGACCATGGATTTCCCAACCCCTGCTGCAGCTTCCGCTCCCCTCTGGCCAGGCAGTTATTCAG
 AATTGAAGGTGTGAAAAGCGTCTTCTTCGGACCAGATTTATCACAGTCACAAAGGAGAATGAAGAGTTA
 GACTGGAATTTACTGAAACCAGACATTTATGCCACAATTATGGACTTCTTTGCATCTGGCTTACCCTAG
 TGACCGAGGAGACGCCTCCGCCTCCGGGAGAAGCAGGCTCTGAGGAAGATGACGAAGTCGTGGCAATGAT
 TAAAGAACTGCTAGATACTAGAATAAGGCCAACTGTGCAGGAGGATGGGGCGACGTGATCTACAGGGC
 TTTGAAGATGGCATCGTGCAGGCTGAAGCTCCAGGGCTCCTGCACCAGCTGCCCCAGCTCCATCATACCC
 TGAAGAGCGGGATTTCAGAACATGCTGCAGTTTTATATCCAGAAGTGAAGGTGTGGAGCAGGTGATGGA
 TGATGACGAATCAGATGAAAAAGAAGCAAATTCATCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201993 representing NM_020045
 Red=Cloning site Green=Tags(s)

MFIQTQDTPNPNSLKFIPGKPVLETRTMDFPPTAAAFRSPLARQLFRIEGVKSVEFGPDFITVTKENEEL
 DWNLLKPDYATIMDFASGLPLVTEETPPPPGEAGSEEDDEVVAMIKELLDRIRPTVQEDGGDVIYRG
 FEDGIVRLKLGSCSTSPSSIIITLKSQIQNMLQFYIPEVEGVEQVMDDDESDEKEANSS

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

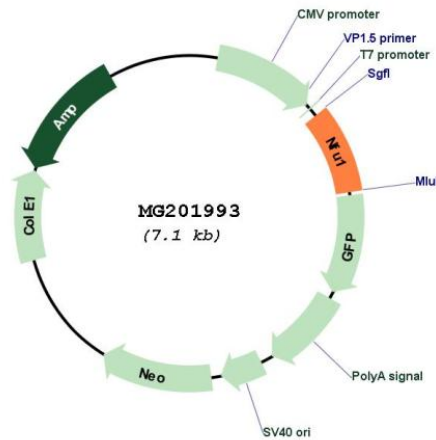


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Cloning Scheme:



Plasmid Map:



ACCN: NM_020045

ORF Size: 597 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_020045.2](#), [NP_064429.1](#)

RefSeq Size: 838 bp

RefSeq ORF: 768 bp

Locus ID: 56748

UniProt ID: [Q9QZ23](#)

Cytogenetics: 6 D1

Gene Summary: Iron-sulfur cluster scaffold protein which can assemble [4Fe-4S] clusters and deliver them to target proteins.[UniProtKB/Swiss-Prot Function]