

Product datasheet for **SC111242**

NFU1 (NM_015700) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NFU1 (NM_015700) Human Untagged Clone
Tag:	Tag Free
Symbol:	NFU1
Synonyms:	CGI-33; HIRIP; HIRIP5; MMDS1; Nfu; NifU; NIFUC
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_015700, the custom clone sequence may differ by one or more nucleotides

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ATGTTGAAGAATCCATACACCATTAAGAAACAGCCTCTGCATCAGTTTGTACAAAGACCACTTTTCCCAC
TACCTGCAGCCTTTTATCACCCAGTGAGATACATGTTTATTCAAACACAAGATACCCAAATCCAAACAG
CTTAAAGTTTATACCAGGAAAACAGTTCTTGAGACAAGGACCATGGATTTTCCCACCCAGCTGCAGCA
TTTCGCTCCCCTCTGGCTAGGCAGTTATTTAGGATTGAAGGAGTAAAAAGTGTCTTCTTTGGACCAGATT
TCATCACTGTCACAAAGGAAAAAAGAAGATTAGACTGGAATTTACTGAAACCAGATATTTATGCAACAAT
CATGGACTTCTTGCATCTGGCTTACCCCTGGTACTGAGGAAACACCTTCAGGAGAAGCAGGATCTGAA
GAAGATGATGAAGTTGTGCAATGATTAAGGAATTGTTAGATACTAGAATACGGCCAAGTGCAGGAAG
ATGGAGGGGATGTAATCTACAAAGGCTTTGAAGATGGCATTGTACAGCTGAAACTCCAGGGTTCTTGAC
CAGCTGCCCTAGTTCAATCATTACTCTGAAAAATGGAATTCAGAACATGCTGCAGTTTTATATCCGGAG
GTAGAAGCGTAGAACAGGTTATGGATGATGAATCAGATGAAAAAGAAGCAAACCTCACCTTAA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_015700 unedited
 TTGTAATACGATTTACTATAGGGCGGCCGCGACTTCGGCACGAGGGTCAGGGTTTTACCC
 TTAGCACTCCGGACTAAGATGGCGGGCAGCGCCAGGCGGGGCTGGGGAGCTGCGGCTGTT
 GCCGCCGGGCTGCGCAGGCGGTTCTGTCAATGTTGAAGAATCCATACACCATTAAGAAA
 CAGCCTCTGCATCAGTTTGTACAAAGACCACTTTCCCACTACCTGCAGCCTTTTATCAC
 CCAGTGAGATACATGTTTATTCAAACACAAGATACCCAAATCCAAACAGCTTAAAGTTT
 ATACCAGAAAACCAAGTTCTTGAGACAAGGACCATGGATTTTCCACCCAGCTGCAGCA
 TTTTCGCTCCCCTCTGGCTAGGCAGTTATTTAGGATTGAAGGAGTAAAAAGTGTCTCTTT
 GGACCAGATTTTCACTGTACAAAGGAAAATGAAGAATTAGACTGGAATTTACTGAAA
 CCAGATATTTATGCAACAATCATGGACTTCTTTCATCTGGCTTACCCTGGTTACTGAG
 GAAACACCTTCAGGAGAAGCAGGATCTGAAGAAGATGATGAAGTTGTGGCAATGATTAAG
 GAATTGTTAGATACTAGAATACGGCCAAGTGTGCAGGAAGATGGAGGGGATGTAATCTAC
 AAAGGCTTTGAAGATGGCATTGTACAGCTGAACTCCAGGGTCTTGTACCAGCTGCCCTA
 GNTCAATCATTACTCTGAAAAATGGAATTCAGAACTGGCTGCAGTTNTATATTCCGGAGG
 TAGAAGGCGTANAACAGGCTTATGGATGATGAATCAGATGAAAAAGAAAGCAACTCCCTT
 AAAATACCTGGATTCTCTTTGGGCATACAGTCAGACTTGTGATAATTTAAACAAGTTTT
 ATATTATTATGCTGAGAACCTTGAGATTATAAAATGCTCTCAGAGATGATAAAAAAN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_015700 unedited
 TACGGGCCGCTTTTAAAGTCAGTTTTTTTTTTTTTTTTTTTACATTCTCTGAAGAGCATA
 TTTTATTAATCTTCAAGTTCCTCAGCATATTAATAATAAAAACCTTGATATATATTATCAA
 CAAGTCTGACTGTTATGCCCAAAGAAAATCCAGATTATTTAAGGTGAGTTTGTCTCTTT
 TTCATCTGATTCATCATAACCTGTTCTACGCCTTCTACCTCCGGAATATAAAAACCTG
 CAGCATGTTTCTGAATTCATTTTTCAGAGTAATGATTGAACCAGGGCAGCTGGTCCAAG
 AACCTGAGTTTTCAGCTGGACAATGCCTCTTTAAAGCCTTTGGAAAATAATACCCCTCAA
 TTTTCTGACAGTGGCCGTTTTCAAAATCAAAAAATCCTTAATATTGGCACAAATTTT
 TTATTTTTCTTAAAAACCGGCTTTCCCGAAGGAGGTTCCCAATACCCCGGGGTACCCCC
 ATGCCAAAAAGCCCGTTGGGGGCAAAATCTCGGGGTCAAAAAACCAACCTAATTTTT
 TTTTTCTTTTGGAAAGGAAAAATTCGGCCAAAAAAACCTTCTCCCCCAACCC
 AAAAAACCCCAACCCCAAGGAAAAACAAAAACCCCTGGGGGGGAAAAACCCCGGCCCC
 TCCTCAAAAAAAGGTTCCCGCGAAAAACATTAACACCCGGGTATTGGGGAGCTCTCT
 CTGCATAAAAAACACCCCCCGCGCAAAAAACCCCGGGAAAAAATCTT
 TTTTTAAAAAAGAGGGTTTTTAGGTGGGGGGTTTTTATAAAAAAACAAC
 ACCCCCCCGCGGGGAAACATATTCCTCCCCCTGCGGGGGGGCTTTTTTTA
 GGGGAGAGGGATCCCCCCCCCTAAGTGGCGCTTT

Restriction Sites:

NotI-NotI

ACCN:

NM_015700

Insert Size:

920 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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:	NM_015700.2 , NP_056515.2
RefSeq Size:	1181 bp
RefSeq ORF:	693 bp
Locus ID:	27247
UniProt ID:	Q9UMSQ
Cytogenetics:	2p13.3
Domains:	NifU-like
Gene Summary:	<p>This gene encodes a protein that is localized to mitochondria and plays a critical role in iron-sulfur cluster biogenesis. The encoded protein assembles and transfers 4Fe-4S clusters to target apoproteins including succinate dehydrogenase and lipoic acid synthase. Mutations in this gene are a cause of multiple mitochondrial dysfunctions syndrome-1, and pseudogenes of this gene are located on the short arms of chromosomes 1 and 3. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Dec 2011]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes isoform 1.</p>