

## Product datasheet for **RG223196**

### **NFU1 (NM\_001002756) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** NFU1 (NM\_001002756) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** NFU1  
**Synonyms:** CGI-33; HIRIP; HIRIP5; MMDS1; Nfu; NifU; NIFUC  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG223196 representing NM\_001002756  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGCACGGCCAGGCGGGGCTGGGGAGCTGCGGCTGTTGCCCGGGCTGCGCAGGCGGTTCTGTC  
ATATGTTGAAGAATCCATACACCATTAAGAAACAGCCTCTGCATCAGTTTGTACAAAGACCCTTTCC  
ACTACCTGCAGCCTTTTATCACCAGTGAGATACATGTTTATTCAAACACAAGATACCCAAATCCAAAC  
AGCTTAAAGTTTATACCAGGAAAACAGTCTTGAGACAAGGACCATGGATTTCCACCCAGCTGCAG  
CATTTTCGCTCCCCTCTGGCTAGGCAGTTATTTAGGATTGAAGGAGTAAAAAGTGTCTTTGGACCAGA  
TTTCATCACTGTCAAAAGGAAAATGAAGAATTAGACTGGAATTTACTGAAACCAGATATTTATGCAACA  
ATCATGGACTTCTTTGCATCTGGCTTACCCTGGTTACTGAGGAAACACCTTCAGGAGAAGCAGGATCTG  
AAGAAGATGATGAAGTTGTGGCAATGATTAAGGAATTGTTAGATACTAGAATACGGCCAAGTGTGCAGGA  
AGATGGAGGGGATGTAATCTACAAAGGCTTTGAAGATGGCATTGTACAGCTGAACTCCAGGGTTCTTGT  
ACCAGCTGCCCTAGTTCAATCATTACTCTGAAAAATGGAATTCAGAACATGCTGCAGTTTATATCCGG  
AGGTAGAAGGCGTAGAACAGGTTATGGATGATGAATCAGATGAAAAGAAGCAAACCTCACCT

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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Protein Sequence: >RG223196 representing NM\_001002756  
 Red=Cloning site Green=Tags(s)

MAATARRGWGAAVAAGLRRRFCHMLKNPYTIKKQPLHQFVQRPLFPLPAAFYHPVRYMFIQTQDTPNPN  
 SLKFIPGKPVLETRTMDFPPTAAAFRSPLARQLFRIEGVKS VFFGPDFITVTKENEELDWNLLKPDYIAT  
 IMDFFASGLPLVTEETPSGEAGSEEDDEVVAMIKELLDTRIRPTVQEDGGDVIYKGFEDGIVQLKLGSC  
 TSCPSSIITLKNGIQNMLQFYIPEVEGVEQVMDDESDEKEANSP

TRTRPLE - GFP Tag - V

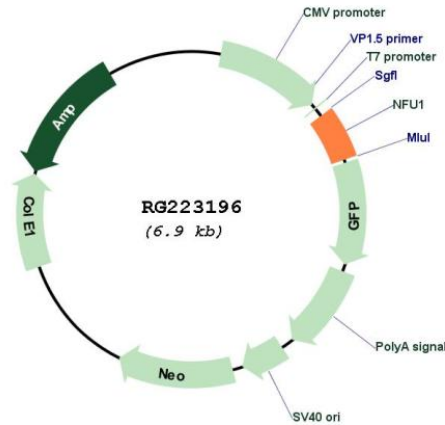
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM\_001002756

ORF Size: 765 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001002756.2</a> , <a href="#">NP_001002756.1</a>
<b>RefSeq Size:</b>	1058 bp
<b>RefSeq ORF:</b>	342 bp
<b>Locus ID:</b>	27247
<b>UniProt ID:</b>	<a href="#">Q9UMS0</a>
<b>Cytogenetics:</b>	2p13.3
<b>Gene Summary:</b>	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]