

Product datasheet for RC223196

NFU1 (NM_001002756) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NFU1 (NM_001002756) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NFU1
Synonyms:	CGI-33; HIRIP; HIRIP5; MMDS1; Nfu; NifU; NIFUC
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC223196 representing NM_001002756 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCGACGGCCAGGCGGGCTGGGGAGCTGCGGCTGTTGCCCGGGCTGCGCAGGCGGTTCTGTC
ATATGTTGAAGAATCCATACACCATTAAGAAACAGCCTCTGCATCAGTTTGTACAAGACCACTTTTCCC
ACTACCTGCAGCCTTTATCACCCAGTGAGATACATGTTTATTCAAACACAAGATACCCCAAATCCAAAC
AGCTTAAAGTTTATACCAGGAAAACAGTTCTTGAGACAAGGACCATGGATTTTCCACCCAGCTGCAG
CATTTTCGCTCCCCTCTGGCTAGGCAGTTATTTAGGATTGAAGGAGTAAAAAGTGTCTTTGGACCAGA
TTTCATCACTGTCACAAAGGAAAATGAAGAATTAGACTGGAATTTACTGAAACCAGATATTTATGCAACA
ATCATGGACTTCTTTGCATCTGGCTTACCCCTGGTTACTGAGGAAACACCTTCAGGAGAAGCAGGATCTG
AAGAAGATGATGAAGTTGTGGCAATGATTAAGGAATTGTTAGATACTAGAATACGGCCAAGTGTGCAGGA
AGATGGAGGGGATGTAATCTACAAAGGCTTTGAAGATGGCATTGTACAGCTGAAACTCCAGGGTTCTTGT
ACCAGCTGCCCTAGTTCAATCATTACTCTGAAAAATGGAATTCAGAACATGCTGCAGTTTTATATCCGG
AGGTAGAAGGCGTAGAACAGGTTATGGATGATGAATCAGATGAAAAAGAAGCAAACCTCACCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC223196 representing NM_001002756
Red=Cloning site Green=Tags(s)

MAATARRGWGAAVAAGLRRRFCHMLKNPYTIKKQPLHQFVQRPLFPLPAAFYHPVRYMFIQTQDTPNPN
 SLKFIPGKPVLETRTMDFPPTAAAFRSPLARQLFRIEGVKS VFFGPDFITVTKENEELDWNLLKPDYIAT
 IMDFFASGLPLVTEETPSGEAGSEEDDEVVAMIKELLDTRIRPTVQEDGGDVIYKGFEDGIVQLKLGSC
 TSCPSSII TLKNGIQNMLQFYIPEVEGVEQVMDDESDEKEANSP

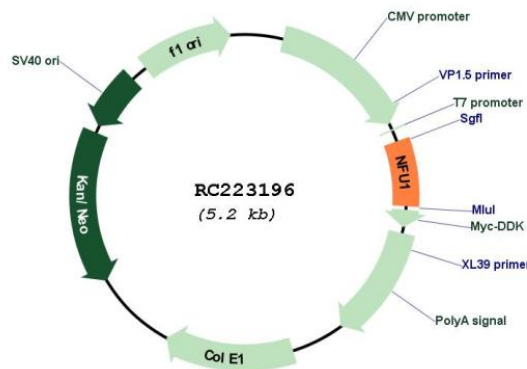
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001002756

ORF Size: 765 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:	<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_001002756.1 , NM_001002756.2 , NP_001002756.1
RefSeq Size:	1058 bp
RefSeq ORF:	342 bp
Locus ID:	27247
UniProt ID:	Q9UMSQ
Cytogenetics:	2p13.3
MW:	28.5 kDa
Gene Summary:	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]