

Product datasheet for **RC221450**

NSFL1C (NM_018839) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: NSFL1C (NM_018839) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: NSFL1C
Synonyms: dj776F14.1; P47; UBX1; UBXD10; UBXN2C
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC221450 representing NM_018839
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGGCGCGGAGCGACAGGAGGCGCTGAGGGAGTTCGTGGCGGTGACGGGCGCCGAGGAGGACCGGGCCC
 GCTTCTTTCTCGAGTCGGCCGGCTGGGACTTGCGATCGCGCTAGCGAGCTTTTATGAGGACGGAGGGGA
 TGAAGACATTGTGACATTTTCGAGGCAACCCCAAGTTCAGTGTCCAGAGGCACAGCCCCAGTGATAAT
 AGAGTGACATCCTTCAGAGACCTCATTTCATGACCAAGATGAAGATGAGGAGGAAGAGGAAGGCCAGAGGT
 TTTATGCTGGGGCTCAGAGAGAAGTGGACAGCAGATTGTTGGCCCTCCAGGAAGAAAAGTCCCAACGA
 GCTGGTGGATGATCTCTTAAAGGTGCCAAGAGCATGGAGCTGTAGCTGTGGAGCGAGTGACCAAGAGC
 CCTGGAGAGACCAGTAAACCGAGAGTTCATGTAGTATTGAACTCTGGAAGAGTGGATTCAGCCTGGATA
 ATGGAGAACTCAGAAGCTACCAAGACCCATCCAATGCCAGTTTCTGGAGTCTATCCGCAGAGGGGAGGT
 GCCAGCAGAGCTTCGGAGGCTAGCTCACGGTGGACAGGTGAACCTGGATATGGAGGACATCGGGACGAG
 GACTTTGTGAAGCCAAAGGAGCCTTCAAAGCCTTCACTGGCGAGGGTCAGAACTGGGCAGCACTGCC
 CCCAGGTGTTGAGTACCAGCTCTCCAGCCCAACAGGCAGAAAAAAGCCAAAGCCAGCTCTTCCATCTT
 AATCGACGAATCAGAGCCTACCACAAACATCCAATTCGGCTTGACAGCGCGGGAGGCTGGTGCAGAAA
 TTTAACACAGCCACAGGATCAGCGACATCCGACTCTTCATCGTGGATGCCCGCCAGCCATGGCTGCCA
 CCAGCTTTATCCTCATGACTACTTTCCCGAACAAAGAGCTGGCTGATGAGAGCCAGACCCCTGAAGGAAGC
 CAACCTGCTCAATGCTGTCATCGTGCAGCGTTAACA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC221450 representing NM_018839
Red=Cloning site Green=Tags(s)

MAAERQEALREFVAVTGAEEEDRARFFLESAGWDLQIALASFYEDGGDEDIVTISQATPSSVSRGTAPSDN
 RVTSFRDLIHDQDEDEEEEGQRFYAGGSERSGQIVGPPRKKSPNELVDDLFKGAKEHGAVAVERTKS
 PGETSKPRVHVVLKLVKSGFLDNGELRSYQDPSNAQFLESIRRGEVPAELRRLAHGGQVNLDMEDHRDE
 DFVKPKGAFKFTGEGQKLGSTAPQVLSTSSPAQQAENEAKASSSILIDESEPTTNIQIRLADGGRLVQK
 FNHSHRISDIRLFIVDARPAAMAATSFILMTTFPNKELADESRTLKEANLLNAVIVQLT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8053_c06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_018839

ORF Size: 1017 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_018839.4](#), [NP_061327.2](#)

RefSeq Size: 3551 bp

RefSeq ORF: 1020 bp

Locus ID: 55968

UniProt ID: [Q9UNZ2](#)

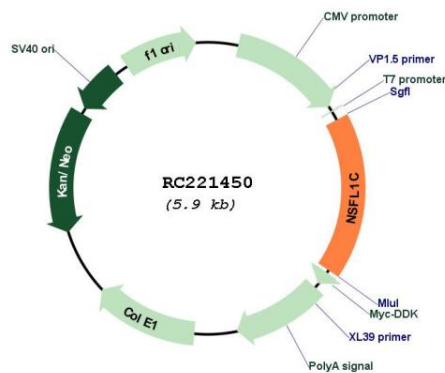
Cytogenetics: 20p13

Domains: UBX, FAF

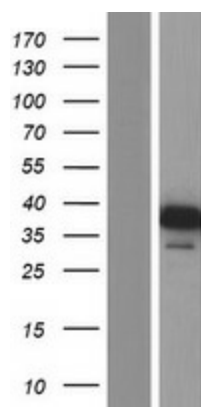
MW: 37.1 kDa

Gene Summary: N-ethylmaleimide-sensitive factor (NSF) and valosin-containing protein (p97) are two ATPases known to be involved in transport vesicle/target membrane fusion and fusions between membrane compartments. A trimer of the protein encoded by this gene binds a hexamer of cytosolic p97 and is required for p97-mediated regrowth of Golgi cisternae from mitotic Golgi fragments. Alternative splicing results in multiple transcript variants. A related pseudogene has been identified on chromosome 8. [provided by RefSeq, May 2011]

Product images:



Circular map for RC221450



Western blot validation of overexpression lysate (Cat# [LY412879]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC221450 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).