

Product datasheet for **RC201537**

NFIL3 (NM_005384) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NFIL3 (NM_005384) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NFIL3
Synonyms:	E4BP4; IL3BP1; NF-IL3A; NFIL3A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC201537 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCAGCTGAGAAAAATGCAGACCGTCAAAAAGGAGCAGGCGTCTCTTGATGCCAGTAGCAATGTGGACA
 AGATGATGGTCCCTAATTCTGCTTTAACGGAAGTGTGAGAAGACTCCACAACAGGTGAGGAGCTGCTTCT
 CAGTGAAGGAAGTGTGGGGAAGAACAATCTTCTGCATGTCGGAGGAAACGGGAATTCATTCTGATGAA
 AAGAAAGATGCTATGTATTGGGAAAAAGGCGGAAAAATAATGAAGCTGCCAAAAGATCTCGTGAGAAGC
 GTCGACTGAATGACCTGGTTTTAGAGAACAATAATTGCACTGGGAGAAGAAAACGCCACTTTAAAAGC
 TGAGCTGCTTTCCTAAAATTAAGTTTGGTTAATTAGCTCCACAGCATATGCTCAAGAGATTCAGAAA
 CTCAGTAATTCTACAGCTGTGTACTTTCAAGTACCAGACTTCCAAATCCAATGTGAGTTCATTTGTGG
 ACGAGCACGAACCCTCGATGGTGTCAAGTAGTTGATTTCTGTCATTAACACTCTCCACAAGCTCGCT
 GTCGATGTTTCAGAAGTGCCTCAGTAGAACACACGCAGGAGAGCTCTGTGCAGGAAGCTGCAGAAGT
 CCTGAAAAAAGTTCAGATTATCAAGCAAGAGCCGATGGAATTAGAGAGCTACACAAGGGAGCCAAGAG
 ATGACCGAGGCTCTTACACAGCGTCCATCTATCAAACTATATGGGGAATCTTTCTCTGGTACTCACA
 CTCTCCCCACTACTGCAAGTCAACCGATCCTCCAGCAACTCCCCGAGAAGCTCGGAAACTGATGATGGT
 GTGGTAGGAAAGTCATCTGATGGAGAAGACGAGCAACAGGTCCCCAAGGGCCCCATCCATTTCCAGTTG
 AACTCAAGCATGTGCATGCAACTGTGGTTAAAGTTCAGAAGTGAATTCCTCTGCCTTGCACACAAGCT
 CCGGATCAAAGCCAAAGCCATGCAGATCAAAGTAGAAGCCTTTGATAATGAATTTGAGGCCACGCAAAAA
 CTTTCTCACCTATTGACATGACATCTAAAAGACATTTGAACTCGAAAAGCATAGTGCCCAAGTATGG
 TACATTTCTCTTACTCTTTCTCAGTGCAAGTGAATAACATTCAAGATTGGTCTCTCAAACTCGGAGAC
 CTGGCATCAAAAAGAAGTGAAGTGGCAAACTCAGAATAGTTTCAAACTGGAGTTGTTGAAATGAAAGAC
 AGTGGCTACAAAGTTTCTGACCCAGAGAACTTGATTTGAAGCAGGGGATAGCAAACTTATCTGCAGAGG
 TTGTCTCACTCAAGAGACTTATAGCCACACAACCAATCTCTGCTCAGACTCTGGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC201537 protein sequence
 Red=Cloning site Green=Tags(s)

MQLRKMQTVKKEQASLDASSNVDKMMVLNSALTEVSEDSTTGEELLSEGSVGNKSSACRRKREFIPDE
 KKDAMYWEKRRKNNEAAKRSREKRRLNDLVLENKLIALGEENATLKAELLSLKLKFLGISSTAYAQEIQK
 LSNSTAVYFQDYQTSKSNVSSFVDEHEPSMVSSSISVIKHSPPSSLDVSEVSSVEHTQESSVQGSCRS
 PENKFQIIKQEPMELESYTPREPRDRGSYASIQNYMGNFSYSHSPPLLQVNRSSNSPRTSETDDG
 VVGKSSDGEDEQVPGPIHSPVELKHHVATVVKVPEVNSSALPHKLRIKAKAMQIKVEAFDNEFEATQK
 LSSPIDMTSKRHFELEKHSAPSMVHSSLTPFSVQVTNIQDWSLKSEHWHQKELSGKTQNSFKTGVMEMKD
 SGYKVSHPENLYLKQGIANLSAEVVSLKRLIATQPIASASDSG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6014_a07.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_005384

ORF Size: 1386 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_005384.3](#)

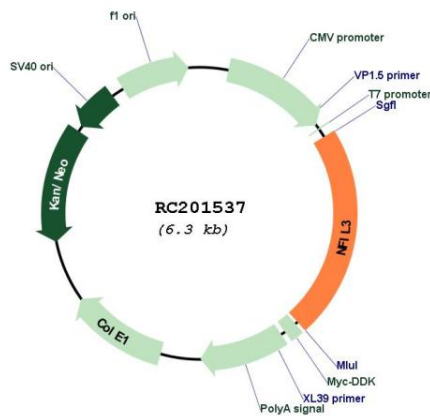
RefSeq Size: 2104 bp

RefSeq ORF: 1389 bp

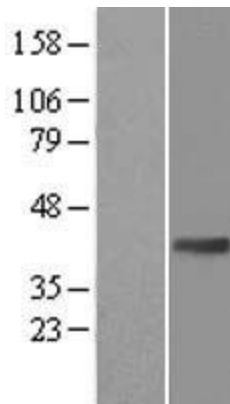
Locus ID: 4783

UniProt ID: [Q16649](#)
Cytogenetics: 9q22.31
Domains: BRLZ
Protein Families: Transcription Factors
MW: 51.5 kDa
Gene Summary: The protein encoded by this gene is a transcriptional regulator that binds as a homodimer to activating transcription factor (ATF) sites in many cellular and viral promoters. The encoded protein represses PER1 and PER2 expression and therefore plays a role in the regulation of circadian rhythm. Three transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Feb 2014]

Product images:



Circular map for RC201537



Western blot validation of overexpression lysate (Cat# [LY401653]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201537 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).