

Product datasheet for **RC238368**

NFIL3 (NM_001290000) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NFIL3 (NM_001290000) 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)



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ORF Nucleotide Sequence:

>RC238368 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCAGCTGAGAAAAATGCAGACCGTCAAAAAGGAGCAGGCGTCTCTTGATGCCAGTAGCAATGTGGACA
 AGATGATGGTCCTTAATTCTGCTTTAACGGAAGTGTGAGAAGACTCCACAACAGGTGAGGAGCTGCTTCT
 CAGTGAAGGAAGTGTGGGGAAGAACAATCTTCTGCATGTCGGAGGAAACGGGAATTCATTCTGATGAA
 AAGAAAGATGCTATGTATTGGGAAAAAGGCGGAAAAATAATGAAGCTGCCAAAAGATCTCGTGAGAAGC
 GTCGACTGAATGACCTGGTTTTAGAGAACAATAATTGCACTGGGAGAAGAAAACGCCACTTTAAAGC
 TGAGCTGCTTTCCTAAAATTAAGTTTGGTTAATTAGCTCCACAGCATATGCTCAAGAGATTCAGAAA
 CTCAGTAATTCTACAGCTGTGTACTTTCAAGTACCAGACTTCCAAATCCAATGTGAGTTCATTTGTGG
 ACGAGCACGAACCCTCGATGGTGTCAAGTAGTTGATTTCTGTCATTAACACTCTCCACAAGCTCGCT
 GTCGATGTTTTCAGAAGTGCCTCAGTAGAACACACGCAGGAGAGCTCTGTGCAGGAAGCTGCAGAAGT
 CCTGAAAAAAGTTCAGATTATCAAGCAAGAGCCGATGGAATTAGAGAGCTACACAAGGGAGCCAAGAG
 ATGACCGAGGCTCTTACACAGCGTCCATCTATCAAACTATATGGGAATTTCTTCTCTGGTACTCACA
 CTCTCCCCACTACTGCAAGTCAACCGATCCTCCAGCAACTCCCCGAGAAGCTCGGAAACTGATGATGGT
 GTGGTAGGAAAGTCATCTGATGGAGAAGACGAGCAACAGGTCCCCAAGGGCCCCATCCATTTCCAGTTG
 AACTCAAGCATGTGCATGCAACTGTGGTTAAAGTTCAGAAGTGAATTCCTCTGCCTTCCACACAAGCT
 CCGGATCAAAGCCAAAGCCATGCAGATCAAAGTAGAAGCCTTTGATAATGAATTTGAGGCCACGCAAAAA
 CTTTCTCACCTATTGACATGACATCTAAAAGACATTTGAACTCGAAAAGCATAGTGCCCAAGTATGG
 TACATTTCTCTTACTCTTTCTCAGTGCAAGTGAATAACATTCAAGATTGGTCTCTCAATCGGAGAG
 CTGGCATCAAAAAGAAGTGAAGTGGCAAACTCAGAATAGTTTCAAACTGGAGTTGTTGAAATGAAAGAC
 AGTGGCTACAAAGTTTCTGACCCAGAGAACTTGATTTGAAGCAGGGGATAGCAAACTTATCTGCAGAGG
 TTGTCTCACTCAAGAGACTTATAGCCACACAACCAATCTCTGCTCAGACTCTGGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238368 protein sequence
 Red=Cloning site Green=Tags(s)

MQLRKMQTVKKEQASLDASSNVDKMMVLNSALTEVSEDSTTGEELLSEGSVGNKSSACRRKREFIPDE
 KKDAMYWEKRRKNNEAAKRSREKRRLNDLVLENKLIALGEENATLKAELLSLKLKFLGISSTAYAQEIQK
 LSNSTAVYFQDYQTSKSNVSSFVDEHEPSMVSSSCISVIKHSPPQSSLDVSEVSSVEHTQESSVQGSCRS
 PENKFQIIKQEPMELESYTPREPRDRGSYASIQNYMGNFSYSHSPPLLQVNRSSNSPRTSETDDG
 VVGKSSDGEDEQVPGPIHSPVELKVVHATVVKVPEVNSSALPHKLRIKAKAMQIKVEAFDNEFEATQK
 LSSPIDMTSKRHFELEKHSAPSMVHSSLTPFSVQVTNIQDWSLSEHWHQKELSGKTQNSFKTGVMEMKD
 SGYKVSHPENLYLKQGIANLSAEVVSLKRLIATQPIASASDSG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

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

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001290000

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.

RefSeq: [NM_001290000.1](#), [NP_001276929.1](#)

RefSeq Size: 2099 bp

RefSeq ORF: 1389 bp

Locus ID: 4783

UniProt ID: [Q16649](#)

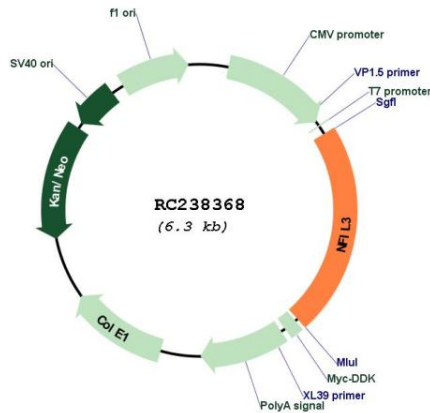
Cytogenetics: 9q22.31

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 RC238368