

## Product datasheet for **RR201525**

### **Nfil3 (NM\_053727) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Nfil3 (NM_053727) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nfil3
Synonyms:	E4BP4
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RR201525 representing NM\_053727  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCAGCTGAGAAAAATGCAGGCCATCAAAAAGGAGCCTGCATCCCTGGATCCTACCGGCAGCTCAGACA  
 AGATGTTGCTGCTGAACCTGCCTTAGCTGAGGTGGCTGAGGACCTAGCCTCAGGGGAAGATCTGCCTCT  
 GAATGAAGGGAGCATGGGGAAAAACAAGTCTCTGCCTGTCGGAGAAAACGGGAATTCATCCCGGATGAG  
 AAGAAGGACGCCATGTATTGGGAGAAACGGCGGAAAAACAACGAGGCTGCCAAAAGGTCTCGGGAGAAGC  
 GTCGCCTCAATGACCTGGTTCTGGAGAACAAGCTGATCGCCTGGGAGAAGAAAAATGCCACTTTAAAGC  
 TGAGCTGCTCCTGAAATTAAGTTTGGCTTAATTAGCTCCACGGTGTACGCCAAGAAATCCAGAAA  
 CTCAGTAATCCACAGCTGTGTATTTTCAGGACTACCAGACATCCAAGGCTGCCGTGAGCTTTACGTGG  
 ACGAGCATGAGCCTGCGATGGTAGCCGGAAGTTGCATCTCTGTCAAGCACTCTCCTCAGAGCTCGCT  
 CTGGATGTGTCTGAGGTGCCTCTGTGGAGCACACAGGAAAGCCCCGACAGGGAGGCTGCCGGAGC  
 CCTGAGAACAAAGTCCCTGTGATCAAGCAGGAGCCCGTGGAGTTGGAGAGCTTTGCCAGGGAGTCCAGAG  
 AGGAGCGGGTGCCTATTCGCCTCCATCTACCAGAGCTACATGGGTAGCTCTTTCTCCACCTACTCCCA  
 CTCCCCTCCCCTCCTGCAGGTCCACGGCTCCACCAGCAACTCCCCGAGAACCTCGGAGGCCGACGAGGGT  
 GTGGTGGCAAGTCTTCTGATGGGAAGACGAGCAGCAGGTCCCCAAAGGCCCATCCATTCTCCAGTGG  
 AGCTGCAGCGGGTGCACGCCACGGTGGTGAAGTTCCGGAAGTGAACCTTCCGCCTTACCGCACAAAGCT  
 CCGGATTAAGCCAAGGCCATGCAGGTCAAAGTGAAGCTTTGGACAGTGAGTTCGAAGGCATGCAGAAA  
 CTCTCTTACCGGCAGATGCGCTAGCCAAAAGACATTTGACCTGGAGAAGCATGGCGCTTCGGGTACGG  
 CCCATCTCCCTCCCTCCTTTCTCGGTGCAGGTGACGAACATTCAAGATTGGTCCCTCAGATCGGAACA  
 CTGGCATCACAAGAAGTGGGCGGCAAAACTCAGGGTACCTTCAAACGGGTGTGGTGAAGTCAAAGAC  
 AGTGGCTATAAGTTTCCGAGGCTGAGAAATTTGATTTGAAGCAGGGGTGGCAAATTTATCCGAGAGG  
 TGGTCTCGCTCAAGAGATTATAGCCACACAGCCTATCTCGGCTTCGGACTCCAGG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR201525 representing NM\_053727  
 Red=Cloning site Green=Tags(s)

MQLRKMQAIKKEPASLDPTGSSDKMLLLNSALAEVAEDLASGEDLLLNEGSMGKNKSSACRRKREFIPDE  
 KKDAMYWEKRRKNNEAAKRSREKRRNLNDLVLENKLIALGEENATLKAELLSLKLKFLGISSTVYAQEIQK  
 LSNSTAVYFQDYQTSKAAVSSYVDEHEPAMVAGSCISVIKHSPQSSLSDVSEVSSVEHTQESPAQGGCRS  
 PENKFPVIKQEPVELESFARESREERGAYSASIIQSYMGSFSTYSHSPPLLQVHGSTSNPRTSEADEG  
 VVGKSSDGEDEQQVPGPIHSPVELQRVHATVVKVPEVNPSALPHKLRIKAKAMQVKEALDSEFEGMQK  
 LSSPADALAKRHFLEKHGASGTAHSSLPPFSVQVTNIQDWSLRSEHWHHKLGGKTQGTFTKGVVEVKD  
 SGYKVEAENLYLKQGVANLSAEVVSLKRFIATQPIASDSR

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

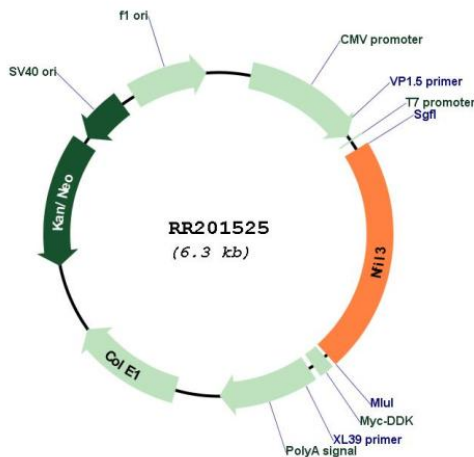
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_053727

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\\_053727.2](#), [NP\\_446179.2](#)

**RefSeq Size:** 1990 bp

**RefSeq ORF:** 1389 bp

**Locus ID:** 114519

**UniProt ID:** [Q6IMZ0](#)

**Cytogenetics:** 17p14

**MW:** 50.8 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. [provided by RefSeq, Feb 2014]