

Product datasheet for **MG223366**

Nfil3 (NM_017373) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nfil3 (NM_017373) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nfil3
Synonyms:	AV225605; E4BP4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG223366 representing NM_017373
 Red=Cloning site Blue=ORF Green=Tags(s)

GACGTTGTATACGACTCCTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGGCGCGCC

ATGCAGCTGAGAAAAATGCAGACCATCAAAAAGGAGCCCGCACCCCTAGATCCTACCAGCAGCTCAGACA
 AGATGCTGCTGCTGAACCTGCCTTAGCTGAGGTGGCCGAGGACCTAGCCTCAGGTGAAGATTTGCTCCT
 GAACGAAGGGAGCATGGGAAAAACAAATCCTCGGCGTGTCCGAGAAAACGGGAATTCATTCCGGACGAG
 AAGAAAGACGCCATGTATTGGGAGAAACGGCGAAAAACAACGAAGCTGCCAAAAGATCTCGGGAGAAGC
 GCCGCCTCAATGACCTGGTTTTGGAGAACAAGCTGATTGCCCTGGGAGAAGAAAATGCCACTTTAAAGC
 TGAGCTGCTCCTCCTGAAATTAAGTTTGGTTAATTAGCTCCACGGCGTATGCCAAGAAATCCAGAAA
 CTCAGTAATCCACAGCTGTCTACTTTCCAGGACTACCAGACATCCAAGGCTGCCGTGAGCTCTTTGTGG
 ACGAGCATGAGCCTGCGATGGTAGCCGGAAGTTGCATCTCAGTCATCAAGCACTCTCCCAGAGCTCGCT
 CTCGATGTGTGTCAGAGGTGTCCTCGGTGGAGCACACTCAGAAAAGCCCCGACAGGGAGGCTGCCGGAGC
 CCTGAGAACAAAGTTCCCTGTGATCAAGCAGGAGCCCGTGGAGTTGGAGAGCTTTGCCAGGGAGGCCAGGG
 AGGAGCGGGGCACGTATCCACCTCCATCTACCAGAGCTACATGGGAAGCTCTTTCTCCACTTACTCCCA
 CTCCCCACCCCTTTGCAGGTCCATGGGTCCACTAGCAACTCCCCAAGAACCTCAGAGGCCGATGAGGGT
 GTAGTGGCAAGTCTTCTGATGGGAAGACGAACAACAGGTCCCTAAGGGCCCCATCCATTCTCCAGTGG
 AGCTGCAACGGGTTACGCCACGGTGGTGAAGTTCCGGAAGTGAACCTTCTGCCTTACCGCACAAAGCT
 TCGGATTAAGCCAAGGCCATGCAGGTCAAAGTGGAGGCTTTGGACAGCGAGTTGAAGGCATGCAGAAA
 CTCTCTTACCCCGCCGATGCGATCGCCAAAAGACATTTGACCTGGAGAAACATGGAACCTCGGGTATGG
 CCCATTCCTCCCTCCTCTTTCTCAGTGCAGGTGACGAACATCAAGATTGGTCCCTCAAATCGGAACA
 CTGGCATCAAAAAGAACTGAGCAGCAAAAACCTCAGAGTAGCTTCAAAACAGGTGTGGTGAAGTCAAAGAC
 GGTGGCTATAAGTTTCCGAAGCTGAGAATTTGTATTTGAAGCAGGGAATAGCAAATTTATCTGCAGAGG
 TGGTCTCGCTCAAGAGATTCATAGCCACACAACCGATCTCGGCTTCGGACTCCAGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG223366 representing NM_017373
 Red=Cloning site Green=Tags(s)

MQLRKMQTIKKEPAPLDPTSSSDKMLLLNSALAEVAEDLASGEDLLLNEGSMGKNKSSACRRKREFIPDE
 KKDAMYWEKRRKNNEAAKRSREKRRLNDLVLENKLIALGEENATLKAELLSLKLKFLGISSTAYAQEIQK
 LSNSTAVYFQDYQTSKAAVSSFVDEHEPAMVAGSCISVIKHSPQSSLSDVSEVSSVEHTQESPAQGGCRS
 PENKFPVIKQEPVELESFAREAREERGTYSTSIYQSYMGSFSTYSHSPPLLQVHGSTSNSPRTSEADEG
 VVGKSSDGEDEQQVPGPIHSPVELQRVHATVVKVPEVNPSPALPHKLRKAKAMQVKVEALDSEFEGMQK
 LSSPADAIKRHFDLEKHGTSMAHSSLPPFSVQVTNIQDWSLKSEHWHHKLSSKTQSSFKTGVVEVKD
 GGYKVSEANLYLKQGIANLSAEVVSLKRFIATQPIASDSR

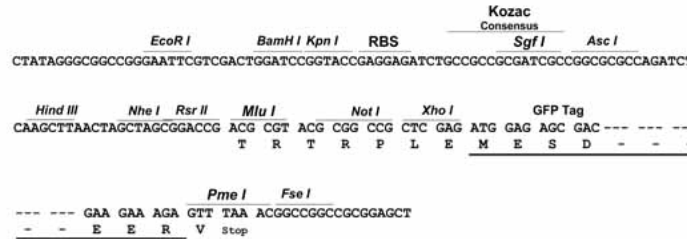
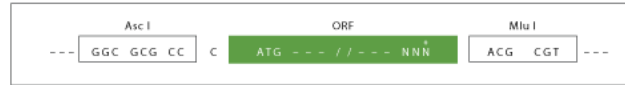
TRTRPLE - GFP Tag - V

Restriction Sites:

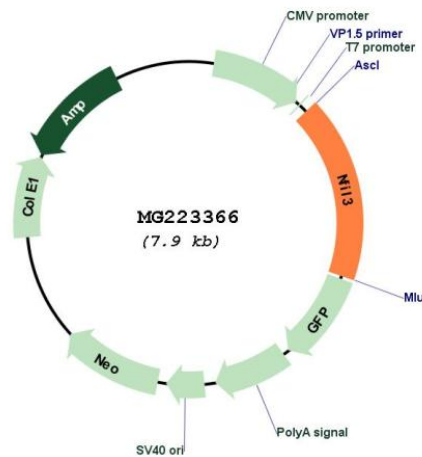
Ascl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_017373

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:	<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:	<u>NM_017373.2</u>
RefSeq Size:	2019 bp
RefSeq ORF:	1389 bp
Locus ID:	18030
UniProt ID:	<u>O08750</u>
Cytogenetics:	13 27.68 cM
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]