

## Product datasheet for **MR206087**

### Ncf1 (NM\_010876) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ncf1 (NM_010876) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ncf1
Synonyms:	Ncf-1; NCF-47K; NOXO2; p47-phox; p47; p47phox
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206087 representing NM_010876 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGGGACACCTTCATTCGCCATATTGCCCTGCTGGGCTTCGAGAAGCGCTTCATCCCCAGCCAGCACT  
ATGTGTACATGTTCTGGTTAAGTGGCAGGACCTGTCGGAGAAGGTGGTCTACAGAAAATCACCGAGAT  
CTACGAGTTCCATAAAAATGCTGAAGGAGATGTTCCCCATTGAGGCCGGCAGATCCACACAGAGAACAGA  
GTCATCCACACCTCCCGCACCCAGGTGGTTTGATGGGCAACGAGCCGCTGAGAGTCGCCAGGGCACTC  
TCACTGAATACTCAACGGCCTCATGGGACTGCCCGTGAAGATCTCCCGTGCCACACCTGCTGGACTT  
CTTCAAAGTGCGGCCTGATGACCTGAAACTGCCCACTGACAGCCAGGCGAAGAAGCTGAGACATACCTG  
GTGCCAAAGATGGCAAGAATAACGTAGCTGACATCACAGGCCCATCATCCTTCAGACCTATCGGGCCA  
TTGCTGACTACGAGAAGAGTTCGGGAACAGAGATGACCGTGGCAACCGGAGACGTGGTGGACGTTGTGGA  
GAAGAGCGAGAGCGGCTGGTGGTTTTGCCAGATGAAGACAAAGCGAGGTTGGGTCCCTGCATCCTATCTG  
GAGCCCTTGACAGTCCCGACGAGGCGGAGGATCCGGATCCCAACTACGCAGGTGAACCGTATGTAACCA  
TCAAAGCGTACGCTGCTGTTGAAGAGGACGAGATGTCCCTGTCTGAGGGTGAAGCCATTGAGGTCATTCA  
TAAGCTCCTGGATGGCTGGTGGTGGTCAGGAAAGGGGATATCACCGGCTATTTCCCATCCATGTATCTG  
CAGAAGGCTGGGAGGAGATAACCCAGGCCAGCGACAGATCAGAGGCCGCGGGGCCACCTCGAAGGT  
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CAACAGCGTCCGATTCTGCAGCAGCGCAGACGCCGGGGCGACCCGGGCGCTGAGCACGGATGGCACA  
AAGGACAATCCATCGACTCCGCGCTCAAACCACAGCCCGCGGTGCCTCCGCGACCCAGCTCGGACCTCA  
TCCTGCACCGCTGCACAGAGAGCACAAACGGAAGCTGACGTCCGCTGTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

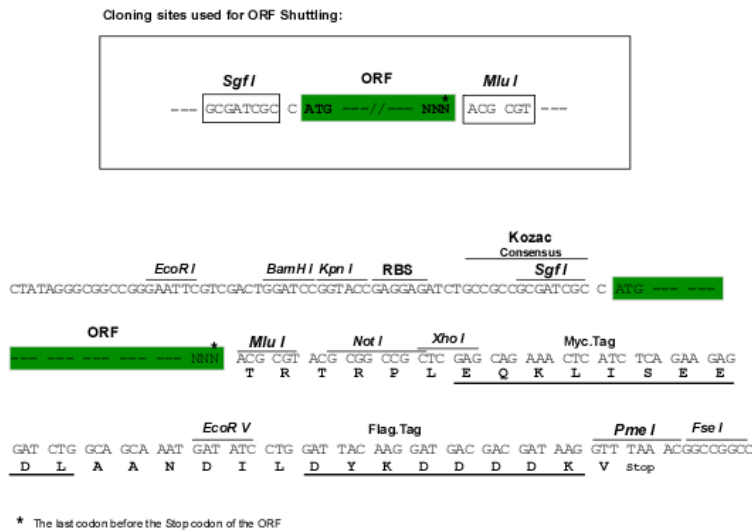


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Chromatograms: [https://cdn.origene.com/chromatograms/mm9075\\_g07.zip](https://cdn.origene.com/chromatograms/mm9075_g07.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_010876

ORF Size: 1170 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_010876.4](#)

**RefSeq Size:** 2721 bp

**RefSeq ORF:** 1173 bp

**Locus ID:** 17969

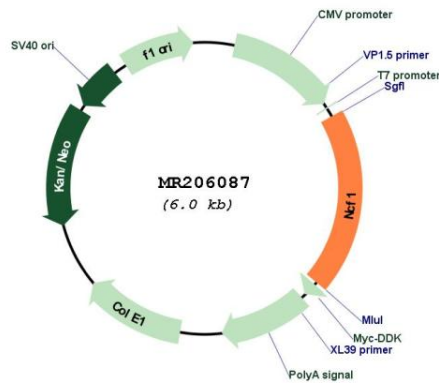
**UniProt ID:** [Q09014](#)

**Cytogenetics:** 5 74.47 cM

**MW:** 45.1 kDa

**Gene Summary:** NCF2, NCF1, and a membrane bound cytochrome b558 are required for activation of the latent NADPH oxidase (necessary for superoxide production).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR206087