

Product datasheet for **MC205906**

Ncf1 (NM_010876) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ncf1 (NM_010876) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ncf1
Synonyms:	Ncf-1; NCF-47K; NOXO2; p47-phox; p47; p47phox
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC055836
CACGGCCAGCCATGGGGACACCTTCATTGCCATATCGCCCTGCTGGGCTTCGAGAAGCGCTTCATCC
CCAGCCAGCACTATGTGTACATGTTCTGGTTAAGTGGCAGGACCTGTCCGAGAAGGTGGTCTACAGAAA
ATTACCCGAGATCTACGAGTTCATAAAATGCTGAAGGAGATGTTCCCATTTAGGCGGGCGAGATCCAC
ACAGAGAACAGAGTCATCCACACCTCCCGGCACCCAGGTGGTTTGATGGACAACGAGCCGCTGAGAGCC
GCCAGGGCACGCTCACTGAGTACTTCAACGGCCTCATGGGACTGCCCGTGAAGATCTCCCGTGCCACCA
CCTGCTGGACTTCTTCAAAGTGGGCTGATGACCTGAAACTGCCCACTGACAGCCAGGCCAAGAAGCCA
GAGACGTACCTGGTGCCCAAAGATGGCAAGAATAACGTAGCTGACATCACAGGCCCATCATCCTTCAGA
CCTATCGGGCCATTGCTGACTACGAGAAGATTGCGGAACAGAGATGACCGTGGCAACCGGAGACGTGGT
GGACGTCGTGGAGAAGAGCGAGAGCGGCTGGTGGTTTTGCCAGATGAAGACAAAGCGAGGTTGGGTCCT
GCATCCTATCTGGAGCCCTTGACAGTCCCGACGAGGGCGAGGATCCGGATCCCAACTACGAGGTGAAC
CGTATGTAACCATCAAAGCTACGCTGCTGTTGAAGAGGACGAGATGTCCTGTCTGAGGGTGAAGCCAT
TGAGGTCACTCATAAGCTCCTGGATGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT
TCCATGTATCTGCAGAAGCTGGGGAGGAGATAACCCAGGCCAGCGACAGATCAGAGGCCGCGGGGCAC
CACCTCGAAGGTGACCATCCGCAACGCACAGAGCATCCACCAGGTTCTCGAAGCGTCTCAGCCAGGA
CACCTATCGCCGCAACAGCGTCCGATTCTGCAGCAGCGCAGACGCCCGGGCGACCCGGGCCCGAGAGC
ACGGATGGCACAAGGACAATCCATCGACTCCGCGCTCAAACCACAGCCCGCGGTGCTCCGCGACCCA
GCTCAGACCTCATCCTGCACCGCTGCACAGAGACCAAAACGGAAGCTGACGTCGCTGTGTGAGAAGC
AGCGGCCCTAGACGGCTCCTATCCCTATCTCTGTATATACTTGTGTATAGCCTCAGGTTAGAGACTCCTC
CCTTGCCTTAAGGTTTGGAAATGGACTTAGACTCTACAGCAAAGGACAGGACTGGGTTAATCTCCACCGGT
ATTGCTAGCATGAGAGGAGGCGAGTGAAGCGCTGCTAGGGTGGGGTTCAGGGACAAAAAAGATCTGATTA
CTGCTGCTGTAGTCTCGACCAAGTTTGCAGAAAGCAAGTGCCTCAGGAACGCCCTAGGAAAGTGTTC
TCAACCTGTTGGCCGTGACCCCTTTGGGGAGGGTGTCAAAGACTTCCAGAGGTTGCCAAGCCATT
GGAAAAACAGATATTTATTTCTATAGATGTTTATATTATGATTACATAAAAGTAGCGAGATGACAGTTAT
GAAGTAGCAATGAAAATAATTTTATGACTGGGGTCCCCACAACATCGGGAAGTACTGTATTAGGGTCA
CAGCACTAGGGAGGTTGAGAAGCACTGCCTAGGGCTCAGGATGTTGCCCGGTTGGTAGAGCTTGACTA
GCATGCAACCGGGCTGGCTTCCATTCCCAACATCCATAAATAGGGTGTGCCAGTGTCCAGCATTAGGG
CAGTCGAGCCGAGGCTCACATCTGTAATTTAGAGCCAAGAGTCAAGAGAACTGCAGTTAGACTCAAGAT
CGGCTGGCCATGTAGGAATTTGAGATCAGATTTAGCTAGTGTGAGATCCTGGGTCATACCACCCCAT
ACCACAGTATAACGGCGTAGGGAGTCTCAGGGGATGAAAGCGACTGTCATTAGTGGGCAGTTATAGAT
TAATATTAGCAACTAATGACTAGTGTCAATTTAGTGTCAATAGTGTGCGGAGACTTTGCTTTCATGTCT
CTATTTCCATCCCAAAATGCAAAGAAACCGCGCTGGCTGGTCTATGTCAACTTGACACGAGCTGGTGTCA
TCTAAGAGAGGGAACCTTGATTGAGGAAACACCTCAGTGGTTAAGAGCACCAGCTGCTTTCTGAGGACT
GGTGTTCGATTTCCAGCATCCACATTTGCTGTAACCTCCGGTTTTAGGGCATCTGACACCCTCACACAGG
CATATATGCAGACAGAAGACCAATGCACATAAATAAAAATACACTGAAAAAATTTAAAAAGAGAGAA
TATGCCTCATAAGATCTTGGTATTAATGGGGAGGGTCCAGCCACAGTTGGTGGTGCATCCTGGGC
TGGTGGTGCATCCTGGGCTGGTGGCCCTGGGTTCTATAAGAAGGCAGGCTGAGCAAGCGATGGGGAGCA
AGGCAGTAAGCAGCCCCCTCCATGGCCTCTGCATCAGCTCCTGCCTCCAGGATCCTGCCCTGCTTGAATC
CTTGCCCTGCTTGAATTCCTGTCTGACTTTTTTTTCAGTGATGAACAACATGGAAGTGAAGCTGAATAA
ATCTTTGCCTCCCCAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI
ACCN: NM_010876
Insert Size: 1173 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 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](#)

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: [BC055836](#), [AAH55836](#)

RefSeq Size: 2692 bp

RefSeq ORF: 1173 bp

Locus ID: 17969

UniProt ID: [Q09014](#)

Cytogenetics: 5 74.47 cM

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]
 Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 3' coding region, compared to variant 1, resulting in an isoform (b) that is shorter than isoform a.