

## Product datasheet for MR205075

### Ncf4 (NM\_008677) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ncf4 (NM_008677) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ncf4
Synonyms:	A1451400; p40phox
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205075 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCCTGGCCAGCAGCTGCGATCAGAGAGCGACTTTGAGCAGCTTCCAGACGATGTGGCCGTCTCAG  
CCAACATCGCTGACATCGAGGAGAAGAGAGGCTTACCAGCCACTTTGTTTTGTCATCGAGGTCAAAC  
AAAAGGAGGGTCCAAGTATCTCATCTACCGCCGCTATCGCCAGTTCTACGCCCTGCAGAGCAAGCTGGAG  
GAGCGGTTTGGCCAGAGAGCAAGAACAGCCCTTTCACCTGCAACCTGCCACATTGCCAGCCAAAGTCT  
ACATGGGCGCAAACAAGAGATCGCTGAGACTCGGATCCCGCCCTCAATGCCTACATGAAGAACCTCCT  
GAGCCTGCCGGTCTGCGTGCTGATGGACCCGAGGTCAGGATCTTCTTCTATCAGTCTGCATACGATGCT  
GAGCAGGTGCCCCAGGCACTCCGCAGGCTCCGACCGCGCACGCGCAAAATCAAGGGTGTGTCTCCACAAG  
GGGCCATCATGGATCGCATGGAAGCGCCAAGAGCAGAGGCCCTTGTGACTTCACTGGGAACAGCAAATT  
GGAGCTAAGTTTCAAAGCTGGAGATGTGATCTTCTTCTCAGTAAGATCAACAAAGACTGGCTGGAGGGC  
ACCTCCCAGGGAGCCACAGGCATCTTCCAGGGTCTTCTGTAAGATCCTTAAGGACTTTCCCGAGGACG  
AGGACACCACCAACTGGCTACGATGCTACTTCTATGAAGACACAGGCAAAACCATCAAGGACATTGCGGT  
GGAGGAGGACCTCAGCAGCACGCCCTGTTCAAAGACCTGCTAGCGCTCATGAGGCGTGAGTTCCAGAGA  
GAAGACATCGCCCTTAGCTACCAGGATGCTGAGGGGACTTGGTTAGGCTGCTCAGATGAGGATGTGG  
GACTCATGGTGAAGCAAGCCGAGGCCTCCCTTCCAGAAGCGCCTCTTCCCCTGGAAGCTGCATGTCAC  
ACAGAAGGACAACACTACAGTGTCTACAACACTGTCCCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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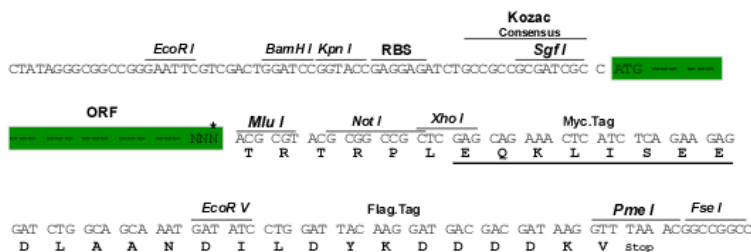
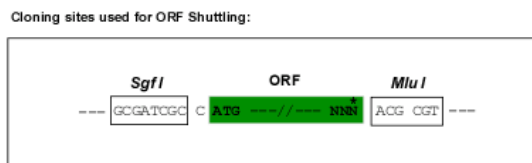
**Protein Sequence:** >MR205075 protein sequence  
Red=Cloning site Green=Tags(s)

MALAAQLRSESDFEQLPDDVAVSANIADIEEKRGFTSHFVVFVIEVKTKGGSKYLIYRRYRQFYALQSKLE  
ERFGPESKNSPFTCNLPTLPAKVYMGAKQEIAETRI PALNAYMKNLLSLPVCVLMDDPDRIFFFYQSAYDA  
EQVPQALRRLRPTRKIKGVSPQGAIMDRMEAPRAEALFDFTGNSKLELSFKAGDVIFLLSKINKDWLEG  
TSQGATGIFPGSFVKILKDFPEDEDTTNWLRCYFYEDTGKTIKDIAVEEDLSSTPLFKDLLALMRREFQR  
EDIALSYQDAEGDLVRLLSDEDVGLMVKQARGLPSQKRLFPWKLHVTQKDNYSVYNTVP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_008677

**ORF Size:** 1020 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\\_008677.1](#), [NP\\_032703.1](#)

**RefSeq Size:** 1463 bp

**RefSeq ORF:** 1020 bp

**Locus ID:** 17972

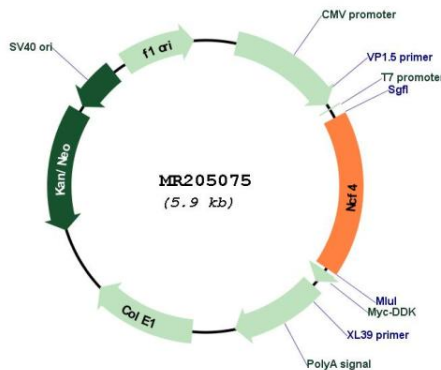
**UniProt ID:** [P97369](#)

**Cytogenetics:** 15 37.1 cM

**MW:** 38.7 kDa

**Gene Summary:** Component of the NADPH-oxidase, a multicomponent enzyme system responsible for the oxidative burst in which electrons are transported from NADPH to molecular oxygen, generating reactive oxidant intermediates. It may be important for the assembly and/or activation of the NADPH-oxidase complex.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR205075