

Product datasheet for **MG205075**

Ncf4 (NM_008677) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ncf4 (NM_008677) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Ncf4
Synonyms: A1451400; p40phox
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG205075 representing NM_008677
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCCTGGCCAGCAGCTGCGATCAGAGAGCGACTTTGAGCAGCTTCCAGACGATGTGGCCGTCTCAG
 CCAACATCGTGCATCGAGGAGAAGAGAGGCTTACCAGCCACTTTGTTTTGTCATCGAGGTCAAAC
 AAAAGGAGGGTCCAAGTATCTCATCTACCGCCGCTATCGCCAGTTCTACGCCCTGCAGAGCAAGCTGGAG
 GAGCGGTTTGGCCAGAGAGCAAGAACAGCCCTTTCACCTGCAACCTGCCACATTGCCAGCCAAAGTCT
 ACATGGGCGCAAACAAGAGATCGCTGAGACTCGGATCCCGGCCCTCAATGCCTACATGAAGAACCTCCT
 GAGCCTGCCGGTCTGCGTGCTGATGGACCCGAGGTCAGGATCTTCTTCTATCAGTCTGCATACGATGCT
 GAGCAGGTGCCCAAGCACTCCGACGGCTCCGACCGCGCACGCGCAAAATCAAGGGTGTGTCTCCACAAG
 GGGCCATCATGGATCGCATGGAAGCGCCAAGAGCAGAGGCCCTTGTGACTTCACTGGGAACAGCAAATT
 GGAGCTAAGTTTCAAAGCTGGAGATGTGATCTTCTTCTCAGTAAGATCAACAAAGACTGGCTGGAGGGC
 ACCTCCCAGGGAGCCACAGGCATCTTCCAGGGTCTTCTGTAAGATCCTTAAGGACTTTCCCGAGGACG
 AGGACACCACCACTGGCTACGATGCTACTTCTATGAAGACACAGGCAAAACCATCAAGGACATTGCGGT
 GGAGGAGGACCTCAGCAGCACGCCCTGTTCAAAGACCTGCTAGCGCTCATGAGGCGTGAGTTCCAGAGA
 GAAGACATCGCCCTTAGCTACCAGGATGCTGAGGGGACTTGGTTAGGCTGCTCAGATGAGGATGTGG
 GACTCATGGTGAAGCAAGCCGAGGCCTCCCTTCCAGAAGCGCCTTCCCCTGGAAGCTGCATGTCAC
 ACAGAAGGACAACACTACAGTGTCTACAACACTGTCCCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205075 representing NM_008677
 Red=Cloning site Green=Tags(s)

MALAAQLRSESDFEQLPDDVAVSANIADIEEKRGFTSHFVVFVIEVKTGGGSKYLIYRRYRQFYALQSKLE
 ERFGPESKNSPFTCNLPTLPAKVYMGAKQEIAETRIPALNAYMKNLLSLPVCVLMDDPDRIFFFYQSAYDA
 EQVPQALRRLRPRTKIKGVSPQGAIMDRMEAPRAEALFDFTGNSKLELSFKAGDVIFLLSKINKDWLEG
 TSQGATGIFPGSFVKILKDFPEDEDTTNWLRCYFYEDTGKTIKDIAVEEDLSSTPLFKDLLALMRREFQR
 EDIALSYQDAEGDLVRLLSDEDVGLMVKQARGLPSQKRLFPWKLHVTQKDNYSVYNTVP

TRTRPLE - GFP Tag - V

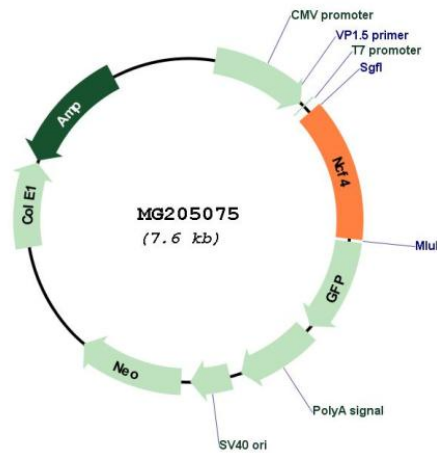
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_008677

ORF Size: 1017 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:	NM_008677.1 , NP_032703.1
RefSeq Size:	1425 bp
RefSeq ORF:	1020 bp
Locus ID:	17972
UniProt ID:	P97369
Cytogenetics:	15 37.1 cM
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]