

Product datasheet for **MR208432**

Ncf2 (NM_010877) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ncf2 (NM_010877) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ncf2
Synonyms:	Ncf-2; NOXA2; p67phox
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208432 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCCTGGCTGAGCCATCAGACTCTGGAATGAAGGGGTGCTCGCAGCCGACAAGAAGGACTGGAAGG
 GGGCCCTGGAGGCTTCAGCGAGGTGCAGGACCCCACTCGAGGATTTGCTTCAACATAGGCTGCGTGAA
 CACCATCTGGAAAACTGCAGGAGCCGAGCAGGCTTCACAAAAGCATCAACAGAGACAAGCACTCT
 GCAGTGGCTACTCCAGAGAGGAATGCTCTACTACAGAATGGAGAAGTACGACCTTGCTATCAAAGACC
 TTAAGAGGCTTGACGCAGCTTCGTGGGAACCAGCTGATAGACTACAAGATCCTGGGGTGCAGTTCAA
 GCTGTTTGCTGTGAGGTATTGTACAATATTGCTCTCATGCATGCCAAGAAAGAGGAATGGAAGAAAGCA
 GAAGAGCAGTTGGCATTGGCAACCAACATGAAGTCCGAGCCAGGCATTCCAAGATCGACAAGGCCATGG
 AGAGCATCTGGAAGCAGAAGCTGTCGAGCCCGTGGTATCCCTGTGGTCCGGCTGTTCCGTCCAATGA
 GAGGCAGTGGCTCAGCTGGCCAAAAGGACTATCTGGCAAGGCTACGTTGTAGCATCTGTGGTTTAC
 CAAGACAACCTTTCTGGCTTCGCCCTCTCGAGCCGAGTCAGCAGAGCCCTCCAGACCCAAAACCC
 CAGAAATCTTCAGGGCTCTGGAAGGTGAGGCACACCGCGTATTGTTTGGCTTTGTGCCGGAGACGCCAGA
 AGAGCTACAGGTCATGCCTGGGAACATCGCTTTTGTCTTGAAGAAGGCGAGTATAACTGGGCCACAGTC
 ATGTTCAATGGACAGAAGGGCTTGTCCTGCAACTACCTGGAGCCAGTTGAGCTTCGGATTACCCCTC
 AGTCGAGCCCGAGGAAGATACTCTCCAGAATCTGATATTCCACCACCTCCTAATTCTAGTCCCCCAGG
 AAGACTCCAGTTGTCACCAGGTCACAAGCAAAAAGAGCCCAAGGAAGTGAAGCTCAGCGTGCCTATGCCT
 TACATGCTCAAGTGCATTACAATAACACAGTGGTTCATGGAGACGCGGCTTGGCTCCCTACAGCCAGC
 TTCGGAACATGGTGTCTAAGAAGCTGGCGCTCTCGCCAGAACACACTAACTGAGCTACCGGCTCGGGA
 CAGCCACGAGCTTCTGCTCCTGTCCGAAGAAAGCATGAAGGATGCCTGGGCAAGTGAAGAACTACTGC
 CTGACTCTGTGGTGTGAGCATAACGGTGGTGCACCAAGGCTTATTGATGAACCCATACAAAGGGAAAAC
 CAGACGCCAGTAAGCAGACTACGGAGCCTCAGCCTAAGGAGGGGACCCAGGTGGTAGCAATCTTCAGTTA
 TGAGGCTGCCAGCCAGAAGACCTGGAATTTGTGGAAGGAGATGTAATCCTGGTACTGTCACATGTGAAT
 GAAGAATGGCTGGAAGGGGAGTGTAAAGGGAAAGTTGCCATTTCCCGAAGGCTTTTGTGAAGGATGTG
 CAGCCAAGAATTTGAAGGCATTCCAGAGAAGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208432 protein sequence
 Red=Cloning site Green=Tags(s)

MSLAEAIRLWNEGVLAADKDKWGALEAFSEVQDPHSRICFNIGCVNTILENLQAAEQAFTKSINRDKHS
 AVAYFQRGMLYYRMEKYDLAIKDLKEALTQLRGNQLIDYKILGLQFKLFACEVLYNIALMHAKKEEWKKA
 EEQLALATNMKSEPRHSIDKAMESIWKQKLFEPVVIPVGRFRPNERQVAQLAKKDYLGKATVVASVVH
 QDNFSGFAPLQPQSAEPPRPKTPEIFRALEGEAHRVLFVFPETPEELQVMPGNIVFVLKKGSDNWATV
 MFNGQKGLVPCNYLEPVELRIHPQSQPQEDTSPESDIPPPPNSSPPGRLQLSPGHKQKEPKELKLSVPMP
 YMLKVHYKYTVVETRLGLPYSQLRNMVSKKLALSPEHTKLSYRRRDSHELLLLSEESMKDAWGQVKNYC
 LTLWCEHTVGDQGLIDEPIQRENSDASKQTTEPQPKEGTQVVAIFSYEAAQPEDLEFVEGDVILVLSHVN
 EEWLEGECKGKVGIFPKAFVEGCAAKNLEGIPREV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_010877

ORF Size: 1578 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_010877.1](#), [NM_010877.2](#), [NM_010877.3](#), [NM_010877.4](#), [NM_010877.5](#), [NP_035007.1](#)

RefSeq Size: 2596 bp

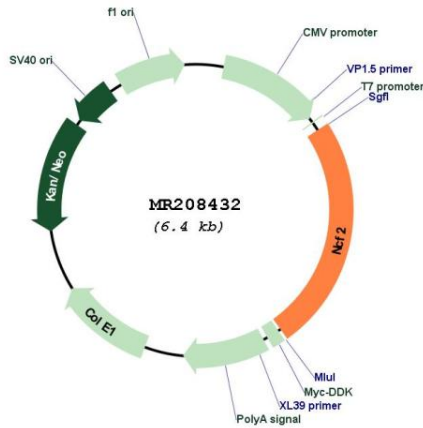
RefSeq ORF: 1578 bp

Locus ID: 17970

UniProt ID: [O70145](#)

Cytogenetics: 1 65.05 cM
MW: 59.5 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 MR208432