

Product datasheet for **SC119885**

NCF2 (NM_000433) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NCF2 (NM_000433) Human Untagged Clone
Tag:	Tag Free
Symbol:	NCF2
Synonyms:	NCF-2; NOXA2; P67-PHOX; P67PHOX
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC119885 sequence for NM_000433 edited (data generated by NextGen Sequencing)

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ATGTCCCTGGTGGAGGCCATCAGCCTCTGGAATGAAGGGGTGCTGGCAGCGGACAAGAAG
GACTGGAAGGGAGCCCTGGATGCCTTCAGTGCCGTCCAGGACCCCACTCCCGGATTTGC
TTCAACATTGGCTGCATGTACACTATCCTGAAGAACATGACTGAAGCAGAGAAGGCCTTT
ACCAGAAGCATTAAACCGAGACAAGCACTTGGCAGTGGCTTACTTCCAACGAGGGATGCTC
TACTACCAGACAGAGAAAATATGATTTGGCTATCAAAGACCTTAAAGAAGCCTTGATTCAG
CTTCGAGGGAACCAAGTATAGACTATAAGATCCTGGGGCTCCAGTTCAAGCTGTTTGCC
TGTGAGGTGTTATATAACATTGCTTTCATGTATGCCAAGAAGGAGGAATGGAAAAAGCT
GAAGAACAGTTAGCATTGGCCACGAGCATGAAGTCTGAGCCAGACATTCAAAAATCGAC
AAGGCGATGGAGTGTGTCTGGAAGCAGAAGCTATATGAGCCAGTGGTATCCCTGTGGGC
AAGCTGTTTCGACCAAATGAGAGACAAGTGGCTCAGCTGGCCAAGAAGGATTACCTAGGC
AAGGCGACGGTCGTGGCATCTGTGGTGGATCAAGACAGTTTCTCTGGGTTTGCCCTCTG
CAACCACAGGCAGCTGAGCCTCCACCCAGACCGAAAACCCAGAGATCTTCAGGGCTCTG
GAAGGGGAGGCTCACCGTGTGCTATTTGGGTTTGTGCCTGAGACAAAAGAAGAGTCCAG
GTCATGCCAGGGAACATTGTCTTTGTCTTGAAGAAGGGCAATGATAACTGGGCCACGGTC
ATGTTCAACGGGCAGAAGGGGCTTGTTCCCTGCAACTACCTTGAACCAGTTGAGCTGCGG
ATCCACCCCTCAGCAGCAGCCCCAGGAGGAAAGCTCTCCGAGTCCGACATCCAGCTCCT
CCTAGTTCCAAAGCCCTGGAAGACCCAGCTGTACCAGGCCAGAAACAAAAGAAGAG
CCTAAGGAAGTGAAGCTCAGTGTTCCTATGCCCTACACACTCAAGGTGCACTACAAGTAC
ACGGTAGTCATGAAGACTCAGCCCGGGCTCCCCTACAGCCAGTCCGGGACATGGTGTCT
AAGAAACTGGAGCTCCGGCTGGAACACACTAAGCTGAGCTATCGGCCCTCGGGACAGCAAT
GAGCTGTTGCCCTTTTCAAGAAGCAGCATGAAGGATGCCTGGGGCCAGGTGAAAAACTAC
TGCTGACTCTGTGGTGTGAGAACACAGTGGGTGACCAAGGCTTTCAGATGAACCCAAG
GAAAGTAAAAAGCTGATGCTAATAACCAGACAACAGAACCTCAGCTTAAAGAAAGCAGC
CAAGTGGAGGCACTCTTCAGTTATGAGGCTACCCAACCAGAGGACCTGGAGTTTCAGGAA
GGGGATATAATCCTGGTGTATCAAAGGTGAATGAAGAATGGCTGGAAGGGGAGTGCAAA
GGGAAGGTGGGCATTTTCCCAAAGTTTTTGTGAAGACTGCGCAACTACAGATTTGGAA
AGCACTCGGAGAGAAGTCTAG
    
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Clone variation with respect to NM_000433.3

5' Read Nucleotide Sequence: >OriGene 5' read for NM_000433 unedited

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GCCCTTGNCAATTTGTACACGACTCATATAGGCGGCCGGAATTCGGCACCAGTATAAAGT
GAACACCTTGGGGCCACTAAGGCAGCCCTGCTAGGGGAGACGCTCCAACCTGTCTTCTC
TCTGTCTCCTGGCAGCTCTTTGGCCTCCTAGTTTCTACCTAATCATGTCCCTGGTGGAG
GCCATCAGCCTCTGGAATGAAGGGGTGCTGGCAGCGGACAAGAAGGACTGGAAGGGAGCC
CTGGATGCCCTTCAAGTCCAGTCCAGGACCCCACTCCCGGATTTGCTTCAACATTGGCTGC
ATGTACACTATCCTGAAGAACATGACTGAAGCAGAGAAGGCCTTTACCAGAAGCATTAAAC
CGAGACAAGCACTTGGCAGTGGCTTACTTCCAACGAGGGATGCTCTACTACCAGACAGAG
AAATATGATTTGGCTATCAAAGACCTTAAAGAAGCCTTGATTGAGCTTCGAGGGAACAG
CTGATAGACTATAAGATCCTGGGGCTCCAGTTCAGCTGTTTGCCTGTGAGGTGTTATAT
AACATTGCTTTCATGTATGCCAAGAAGGATGAATGAAAAATAGCTGAAGATCAGTTAGC
ATTGGCCACGAGCATGAAGTCTGAGCCAGACATTCCATAATCGACAGGGCATGGAGTGT
GTCTGGAATCANAAGCATATGATCCAGTGGTGTCCCTGNTGGGAGCTGTTTCGACCAA
TGAGAGACAGTGGCTCAGCTGGCCNAGAAGGATTACCCTAGCAGGCGACGGTCGTGCATC
TGGGNGGATCAAGAAGTTTCCCTGGTTTGGCCCTCTGAACCCACAGCAGCTGACCTCCCC
CCGGACCGAAACCCGAAATCTCAGGCCTCGAAAGGGAGCCTAACGGGGCATTGGGG
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_000433 unedited TTTTTTTTTTTTAGGTTTAAAAAAAAAAAAACAACAAGTTTATTTGTATATGCCTTATGA GTAACCTATAAGGTTACTTCAAGCCTTAAGAGCCAATTACAGTAATGGTTCAGAAACAGG AATATTTGACTTACTCCTTGGGCCTGGACTTGGGTGCTTGTTTTTGTAAGATGATGAT AGGTTTTTTTTTATTGTGGTATGACACAGAAAAGTGCACCAATGTACAGCTTGATGAAT GTTTACAGTGTGAACACAGCTGGCTAGCTAGCACTCAGAGCAAGAAACAGGATCAGTACC TGGAAGACTCTCTCGTGCCCTTTCCAGACACTTCCATCCACTTTTCTCTCCCCTAACTC CTCCATTACCTGTCCCATCTCCTCACCCACTGTGCCCCAGGAAATCATCCTGNGTACT CACATCATTGTCTAGTAGGTTAAATTTTAAACAGGGAATAAATAGTTAACACTTCCAACT GTAATGTCTCAGTACAGTATACAGCAGAAGGGTCTAAATCTTACAAACAAGTAATAGGG CTTCATT
Restriction Sites:	NotI-NotI
ACCN:	NM_000433
Insert Size:	2440 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_000433.2 , NP_000424.2
RefSeq Size:	2406 bp
RefSeq ORF:	1581 bp
Locus ID:	4688
UniProt ID:	P19878
Cytogenetics:	1q25.3
Domains:	PB1, TPR, SH3
Protein Families:	Druggable Genome
Protein Pathways:	Leukocyte transendothelial migration

Gene Summary:

This gene encodes neutrophil cytosolic factor 2, the 67-kilodalton cytosolic subunit of the multi-protein NADPH oxidase complex found in neutrophils. This oxidase produces a burst of superoxide which is delivered to the lumen of the neutrophil phagosome. Mutations in this gene, as well as in other NADPH oxidase subunits, can result in chronic granulomatous disease, a disease that causes recurrent infections by catalase-positive organisms. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jun 2010]

Transcript Variant: This variant (1) and variant 2 encode the same protein (isoform 1).