

Product datasheet for **RG231265**

NCF2 (NM_001190794) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NCF2 (NM_001190794) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NCF2
Synonyms:	NCF-2; NOXA2; P67-PHOX; P67PHOX
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG231265 representing NM_001190794
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCCTGGTGGAGCCATCAGCCTCTGGAATGAAGGGGTGCTGGCAGCGGACAAGAAGGACTGGAAGG
 GAGCCCTGGATGCTTTCAGTGCCGTCCAGGACCCCACTCCCGGATTTGCTTCAACATTGGCTGCATGTA
 CACTATCCTGAAGAACATGACTGAAGCAGAGAAGGCCTTTACCAGAAGCATTAAACCGAGACAAGCACTTG
 GCAGTGGCTTACTTCCAACGAGGGATGCTCTACTACCAGACAGAGAAATATGATTTGGCTATCAAAGACC
 TTAAGAAGCCTTGATTAGCTTCGAGGGAACAGCTGATAGACTATAAGATCCTGGGGCTCCAGTTCAA
 GCTGTTTGCTGTGAGAAGCAGAAGCTATATGAGCCAGTGGTATCCCTGTGGGCAAGCTGTTTCGACCA
 AATGAGAGACAAGTGGCTCAGCTGGCCAAGAAGGATTACCTAGGCAAGGCGACGGTCGTGGCATCTGTGG
 TGGATCAAGACAGTTTCTCTGGGTTTCCCTCTGCAACCACAGGACAGCTGAGCCTCCACCCAGACCGAA
 AACCCAGAGATCTTCAGGGCTCTGGAAGGGGAGGCTCACCGTGTCTATTTGGGTTTGTGCTGAGACA
 AAAGAAGAGCTCCAGGTCATGCCAGGGAACATTGTCTTTGTCTTGAAGAAGGGCAATGATAACTGGGCCA
 CGGTCATGTTCAACGGGCGAGAAGGGCTTGTCCCTGCAACTACCTTGAACCAAGTTGAGCTGCGGATCCA
 CCCTCAGCAGCAGCCCCAGGAGGAAAGCTCTCCGAGTCCGACATCCCAGCTCCTCCTAGTTCCAAAGCC
 CCTGGAAGACCCAGCTGTACCAGGCCAGAAACAAAAGAAGAGCCTAAGGAAGTGAAGCTCAGTGTTT
 CCATGCCCTACACTCAAGGTGCACTACAAGTACACGGTAGTCATGAAGACTCAGCCCGGGCTCCCTA
 CAGCCAGTCCGGGACATGGTGTCTAAGAACTGGAGTCCGGCTGGAACACACTAAGCTGAGCTATCGG
 CCTCGGGACAGCAATGAGCTGGTGCCCTTTTCCAGAACAGCATGAAGGATGCCTGGGGCCAGGTGAAAA
 ACTACTGCCTGACTCTGTGGTGTGAGAACACAGTGGGTGACCAAGGCTTTCCAGATGAACCAAGGAAAG
 TGAAGAAAGCTGATGCTAATAACCCAGACAACAGCAACCTCAGCTTAAGAAAGGCGACGCAAGTGGAGGCACTC
 TTCAGTTATGAGGCTACCAACCCAGAGGACCTGGAGTTTCCAGGAAGGGGATATAATCCTGGTGTATCAA
 AGGTGAATGAAGAATGGCTGGAAGGGGAGTGCAAGGGGAAGTGGGCATTTTCCCAAAGTTTTTGTGGA
 AGACTGCGCAACTACAGATTTGGAAGCACTCGGAGAGAAGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG231265 representing NM_001190794
 Red=Cloning site Green=Tags(s)

MSLVEAISLWNEGVLAADKKDWKALDAFSAVQDPHSRICFNIGCMYTIILKNMTEAEKAFTRSINRDKHL
 AVAYFQRGMLYYQTEKYDLAIKDLKEALIQLRGNQLIDYKILGLQFKLFACEKQKLYEPVVIPVGLFRP
 NERQVAQLAKKDYLKATVVASVVDQDSFSGFAPLQPQAAEPPRPKTPEIFRALEGEAHRVLFVGFVPET
 KEELQVMPGNIIVFLKKGNDNWATVMFNGQKGLVPCNYLEPVELRIHPQQPQEESPPQSDIPAPPSSKA
 PGRPQLSPGQKQKEEPKVKLSVPMPTLKVHYKYTVVMKTQPGLPYSQVRDMVSKKLELRLEHTKLSYR
 PRDSNELVPLSEDSMKDAWGQVKNYCLTLWCENTVGDQGFDPKESKADANNQTTPEQLKKGQSVEAL
 FSYEATQPEDLEFQEGDIILVLSKVNEEWLEGECKGKVGIFPKVFVEDCATTDLESTREV

TRTRPLE - GFP Tag - V

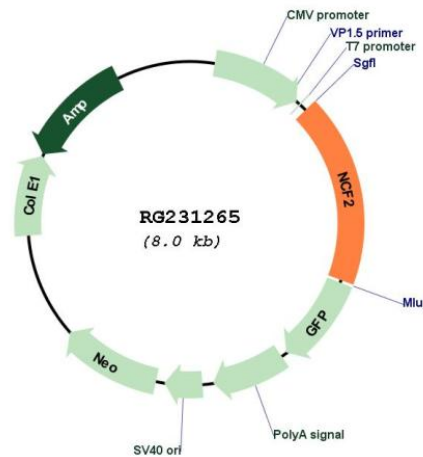
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001190794

ORF Size: 1443 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:	<u>NM_001190794.1</u> , <u>NP_001177723.1</u>
RefSeq Size:	2285 bp
RefSeq ORF:	1446 bp
Locus ID:	4688
UniProt ID:	<u>P19878</u>
Cytogenetics:	1q25.3
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]