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Product datasheet for RC201233

NCF1 (NM_000265) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NCF1 (NM_000265) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NCF1
Synonyms:	CGD1; NCF1A; NOXO2; p47phox; SH3PXD1A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC201233 representing NM_000265
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGGACACCTTCATCCGTCACATCGCCCTGCTGGGCTTTGAGAAGCGCTTCGTACCCAGCCAGCACT
ATGTGTACATGTTCCTGGTGAAATGGCAGGACCTGTCGGAGAAGGTGGTCTACCGGCGCTTCACCGAGAT
CTACGAGTTCCATAAAACCTTAAAAGAAATGTTCCCTATTGAGGCAGGGGCGATCAATCCAGAGAACAGG
ATCATCCCCCACCTCCCAGCTCCCAAGTGGTTTGACGGGCAGCGGGCCGCCGAGAACCGCCAGGGCACAC
TTACCGAGTACTGCAGCACGCTCATGAGCCTGCCCACCAAGATCTCCCGCTGTCCCCACCTCCTCGACTT
CTTCAAGGTGCGCCCTGATGACCTCAAGCTCCCCACGGACAACCAGACAAAAAAGCCAGAGACATACTTG
ATGCCCAAAGATGGCAAGAGTACCGCGACAGACATCACCGGCCCCATCATCCTGCAGACGTACCGCGCCA
TTGCCAACTACGAGAAGACCTCGGGCTCCGAGATGGCTCTGTCCACGGGGGACGTGGTGGAGGTCGTAGA
GAAGAGCGAGAGCGGTTGGTGGTTCTGTCAGATGAAAGCAAAGCGAGGCTGGATCCCAGCGTCCTTCCTC
GAGCCCCTGGACAGTCCTGACGAGACGGAAGACCCTGAGCCCAACTATGCAGGTGAGCCATACGTCGCCA
TCAAGGCCTACACTGCTGTGGAGGGGGACGAGGTGTCCCTGCTCGAGGGTGAAGCTGTTGAGGTCATTCA
CAAGCTCCTGGACGGCTGGTGGGTCATCAGGAAAGACGACGTCACAGGCTACTTCCCGTCCATGTACCTG
CAAAAGTCAGGGCAAGACGTGTCCCAGGCCCAACGCCAGATCAAGCGGGGGGCGCCGCCCCGCAGGTCGT
CCATCCGCAACGCGCACAGCATCCACCAGCGGTCGCGGAAGCGCCTCAGCCAGGACGCCTATCGCCGCAA
CAGCGTCCGTTTTCTGCAGCAGCGACGCCGCCAGGCGCGGCCGGGACCGCAGAGCCCCGGGAGCCCGCTC
GAGGAGGAGCGGCAGACGCAGCGCTCTAAACCGCAGCCGGCGGTGCCCCCGCGGCCGAGCGCCGACCTCA
TCCTGAACCGCTGCAGCGAGAGCACCAAGCGGAAGCTGGCGTCTCCCGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC201233 representing NM_000265
Red=Cloning site Green=Tags(s)

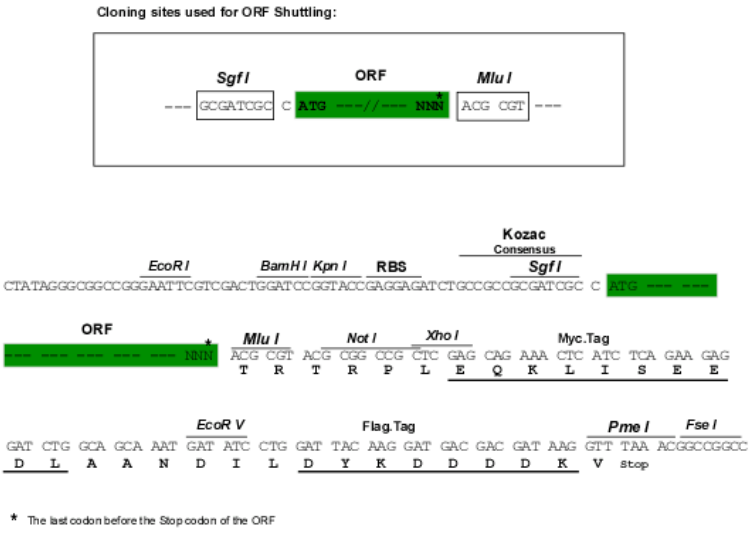
MGDTFIRHIALLGFEKRFVPSQHYVYMFLVKWQDLSEKVVYRRFTEIYEFHKTLKEMFPIEAGAINPENR
IIPHLPAPKWFDGQRAAENRQGTLTEYCSTLMSLPTKISRCPHLLDFFKVRPDDLKLPTDNQTKKPETYL
MPKDGKSTATDITGPIILQTYRAIANYEKTSGSEMALSTGDVVEVVEKSESGWWFCQMKAKRGWIPASFL
EPLDSPDETEDPEPNYAGEPYVAIKAYTAVEGDEVSLLEGEAVEVIHKLLDGWWVIRKDDVTGYFPSMYL
QKSGQDVSQAQRQIKRGAPPRRSSIRNAHSIHQRSRKRLSQDAYRRNSVRFLQQRRRQARPGPQSPGSPL
EEERQTQRSKPQPAVPPRPSADLILNRCSESTKRKLASPV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg2446_d03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000265

ORF Size: 1170 bp

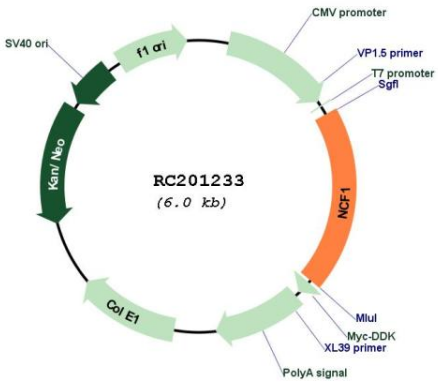
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

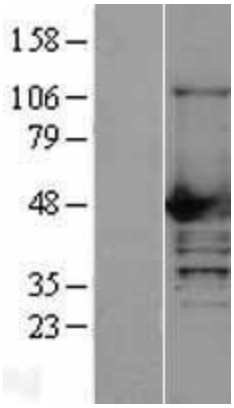
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_000265.6
RefSeq Size:	1409 bp
RefSeq ORF:	1173 bp
Locus ID:	653361
UniProt ID:	P14598
Cytogenetics:	7q11.23
Domains:	SH3, PX
Protein Pathways:	Chemokine signaling pathway, Fc gamma R-mediated phagocytosis, Leukocyte transendothelial migration, Pathogenic Escherichia coli infection, Regulation of actin cytoskeleton
MW:	44.5 kDa
Gene Summary:	The protein encoded by this gene is a 47 kDa cytosolic subunit of neutrophil NADPH oxidase. This oxidase is a multicomponent enzyme that is activated to produce superoxide anion. Mutations in this gene have been associated with chronic granulomatous disease. [provided by RefSeq, Jul 2008]

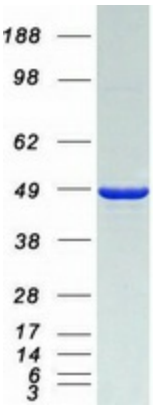
Product images:



Circular map for RC201233



Western blot validation of overexpression lysate (Cat# [LY400103]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201233 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NCF1 protein (Cat# [TP301233]). The protein was produced from HEK293T cells transfected with NCF1 cDNA clone (Cat# RC201233) using MegaTran 2.0 (Cat# [TT210002]).