

Product datasheet for RC216094

NCF4 (NM_000631) Human Tagged ORF Clone

Product data:

OriGene Technologies, Inc.

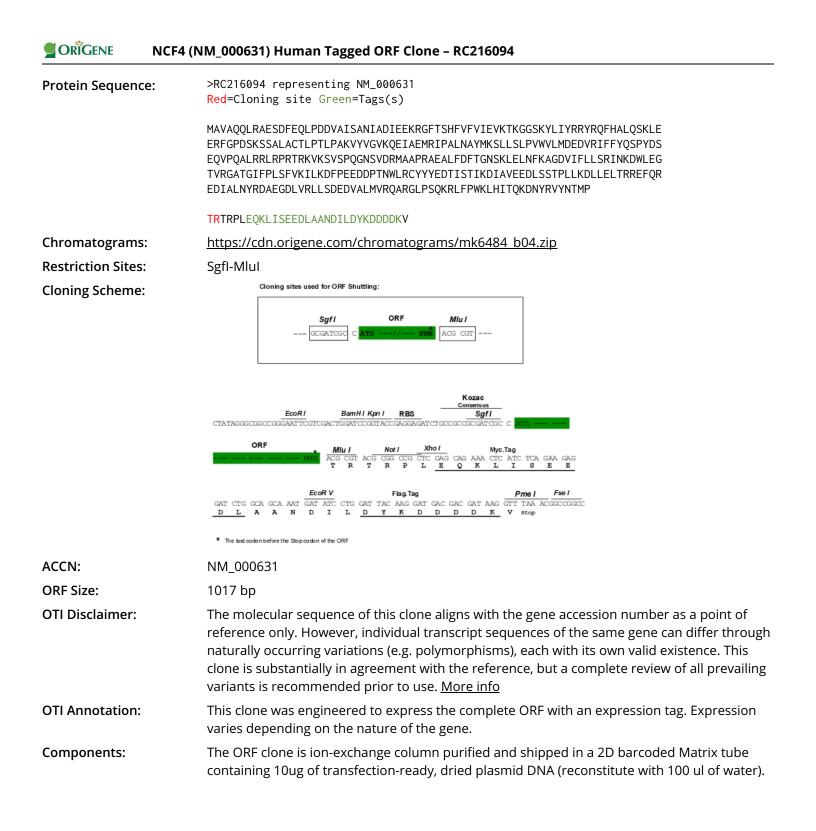
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Product Type:	Expression Plasmids
Product Name:	NCF4 (NM_000631) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NCF4
Synonyms:	CGD3; NCF; P40PHOX; SH3PXD4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>>RC216094 representing NM_000631 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG**GTTTAA**



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ORIGENE NCF4 (NM_000631) Human Tagged ORF Clone – RC216094

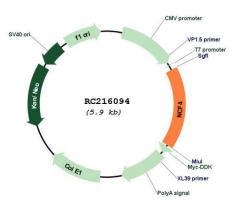
Reconstitution Method:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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:	<u>NM 000631.5</u>
RefSeq Size:	1386 bp
RefSeq ORF:	1020 bp
Locus ID:	4689
UniProt ID:	<u>Q15080</u>
Cytogenetics:	22q12.3
Domains:	PB1, SH3, PX
Protein Pathways:	Leukocyte transendothelial migration
MW:	38.9 kDa
Gene Summary:	The protein encoded by this gene is a cytosolic regulatory component of the superoxide- producing phagocyte NADPH-oxidase, a multicomponent enzyme system important for host defense. This protein is preferentially expressed in cells of myeloid lineage. It interacts primarily with neutrophil cytosolic factor 2 (NCF2/p67-phox) to form a complex with neutrophil cytosolic factor 1 (NCF1/p47-phox), which further interacts with the small G protein RAC1 and translocates to the membrane upon cell stimulation. This complex then activates flavocytochrome b, the membrane-integrated catalytic core of the enzyme system. The PX domain of this protein can bind phospholipid products of the PI(3) kinase, which suggests its role in PI(3) kinase-mediated signaling events. The phosphorylation of this protein was found to negatively regulate the enzyme activity. Alternatively spliced transcript variants encoding

distinct isoforms have been observed. [provided by RefSeq, Jul 2008]

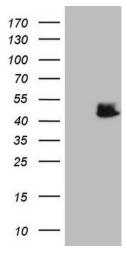
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Product images:

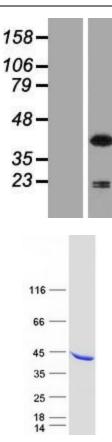


Circular map for RC216094



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY NCF4 (Cat# RC216094, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-NCF4 (Cat# [TA809135])(1:2000). Positive lysates [LY424600] (100ug) and [LC424600] (20ug) can be purchased separately from OriGene.

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Western blot validation of overexpression lysate (Cat# [LY424600]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC216094 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

Coomassie blue staining of purified NCF4 protein (Cat# [TP316094]). The protein was produced from HEK293T cells transfected with NCF4 cDNA clone (Cat# RC216094) using MegaTran 2.0 (Cat# [TT210002]).

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