

Product datasheet for **RR214240**

Ncf1 (NM_053734) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ncf1 (NM_053734) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Ncf1
Synonyms: Ncf-1; p47phox
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR214240 representing NM_053734
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGGACACCTTCATTCGCCACATCGCCCTCCTGGGCTTCGAGAAACGCTTCGTCCCCAGCCAACACT
ATGTGTACATGTTCTCTGGTTAAGTGGCAGGACCTGTCGGAGAAGTGGTCTACAGAAAATTCACCGAGAT
CTACGAGTTCCATAAAATGTTAAAGGAGATGTTCCCCATTGAGGCCGGTGAGATCCACACAGAAAACAGA
GTCATCCCTCACCTCCCAGCTCCCAGGTGGTATGATGGGCAGCGTGCAGCGGAGAGCCGCCAGGGAACGC
TACCCGAGTACTTCAACAGCCTCATGGACTGCCCGTGAAGATCTCCCGCTGCCACACCTCTTGAACCT
CTTCAAAGTGCGGCCGATGACCTGAAGCTGCCAATGACAGCCAGGTGAAGAAGCCAGAGACATACCTG
ACGGCCAAAGATGGCAAGAATAATGTAGCTGACATCACGGTCCCATCATCCTTCAGACCTATCGGGCCA
TCGCTGACTACGAGAAGGGTTCCAAAACAGAGATGACCGTGGCGACGGGAGATGTGGTGGATGTCGTAGA
GAAAAGCGAGAGTGGCTGGTGGTTTTGCCAGATGAAGACAAAACGAGGTTGGGTCCCTGCATCCTATTTG
GAGCCCCCTTGACAGCCCTGATGAGGCAGAGGACCCCGATCCCAACTACGCAGGTGAACCGTATGTAACCA
TCAAAGCGTACGCTGCTGTTGAAGAGGATGAGGTGCCCTGTCTGAGGGTGAAGCCATCGAGGTCATTCA
TAAGTCCTAGATGGCTGGTGGTGGTTCAGGAAAGGGGACATCACCGGCTACTTCCATCCATGTATCTG
CAGAAGGCTGGGAGGAGATAAACCAGGCCAGCGACAGATTAGAAGCCGCGGGGACCACCTCGCAGGT
CGACCATCCGCAATGCACAGAGCATCCACCAGCGTTCTCGGAAGCGCCTCAGCCAGGACACCTATCGCCG
CAACAGCGTCCGATTCTGCAGCAGCGCAGACGCCCGCGCACCTGGGCCGAGAGCCCTGACTCAAAG
GACAATCCATCGACTCCGCGGCCAAACCACAGCCTGCGGTGCCTCCGAGACCCAGCTCGGACCTCATCC
TGCACCGCTGCACAGAGACCAAGAGGAAACTGACGTCCGCCGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR214240 representing NM_053734
Red=Cloning site Green=Tags(s)

MGDTFIRHIALLGFEKRFVPSQHYYVMFLVKWQDLSEKVYVRKFTEIYEFHKMLKEMFPIEAGEIHTENR
 VIPHLPPAPRWYDGRAAESRQGLTEYFNLSMLPVKISRCPLLNFVKVRPDDLKLPNDSQVKKPETYL
 TAKDGNVADITGPIILQTYRAIADYEKGSKTEMTVATGDVVDVVEKSESGWWFCQMKTGRGWVPASYL
 EPLDSPDEAEDPDPNYAGEPYVTIKAYAAVEEDEVSLSEGEAIEVHKLLDGGWVVVRKGDITGYFPSMYL
 QKAGEEITQAQRQIRSRGAPRRRSTIRNAQSIHQRSRKLSDQTYRRNSVRFLLQQRRRPARPGPQSPDSK
 DNPSTPRAKPQPAVPPRPSSDLILHRCTESTKRKLTSAV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

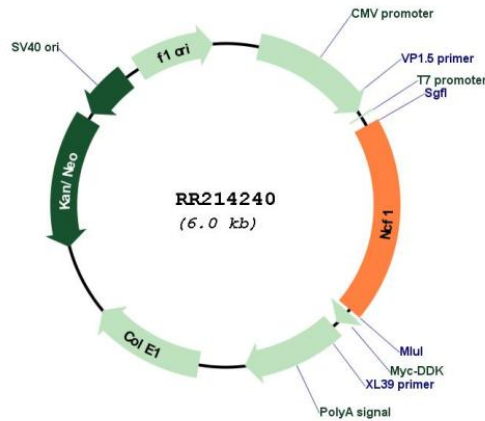
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_053734

ORF Size:	1167 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:	NM_053734.2 , NP_446186.2
RefSeq Size:	2800 bp
RefSeq ORF:	1170 bp
Locus ID:	114553
Cytogenetics:	12q12
MW:	44.7 kDa
Gene Summary:	involved in the regulation of arthritis severity in rats [RGD, Feb 2006]