

Product datasheet for **RR209171**

Nckap1 (NM_031618) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nckap1 (NM_031618) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nckap1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR209171 representing NM_031618 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGCGCTCCGTGCTGCAGCCAGTCAGCAGAAGCTGGCGGAGAAGCTCACCATCCTCAACGACCGGG
GCGTCGGCATGCTCACGCGCCTCTACAACATCAAGAAGGCATGTGGAGATCCCAAGGCTAAACCATCCTA
CCTTATTGACAAAAACCTGGAATCTGCTGTGAAATTCATAGTCAGAAAATTTCTGCTGTAGAAACACGC
AACAAACATCAACAGCTTGCACAACACAGAAAGAAAAATCAGAGATTCTGAAAAATCTGGCATTATATT
ACTTTACATTTGTAGATGTTATGGAATTTAAGGACCATGTCTGTGACTTGCTGAATACTATCGACGCTCTG
CCAAGTCTTTTATGATTAAGTGTGAACCTTTGATTTAACAAGAAGTACTTAGACTTGACTGTGACCTAC
ACAACATTAATGATACTGCTGTCCCGGATTGAAGAAAGGAAGGCCATCATTGGACTGTACAATTATGCAC
ATGAAATGACCCACGGAGCAAGTGACCGAGAATACCCACGCTTGGTCAGATGATTGTGGACTATGAACA
CCCTTTAAGAAGATGATGGAAGAATTCGTACCCACAGCAAGTCTCTTCAGATGCGCTAATTTCTCTT
CAGATGGTGTATCCTAGACGGAATCTTTCAGCAGATCAGTGGAGGAATGCCAGTTGTTGAGTCTCATCA
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AACCTTTGGAAGCTAGCTCTTCAGAGTAGCTCCTGCCTCTCTCTCTTTCCGGATGAAGTTTTCCACATTC
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CATTATCTTTGCCCCTGATGAAATATCTGGCTACTCCGTCATGCAGACAACATGCCAAGAAGAGTGC
AGATGACTTTATAGATAAGCACATTGCTGAGCTGATCTTTACATGGAGGAGCTCAGAGCAGATGTCAGG
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TTTAGGTTACAGGCATACACTAGTGTCTCAAAGCTTCACTTAGCCTTGCAGATCACCGAGAAGTTCGGAA
AGATGATGAACACAATAATCCATACAAAGATGGTCGATTCTTGGTGGAAATGTTGGTGGAAACATC
CGATCTCCATATTTGTTTTTATAGCCGTGCTTTTGAAGATGTTTCAGCAGTGTTCAGGAGTTGCC



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TCTCAGTCGCGATACTCCATCGCCTTCTCTGCTCTGCACTCACTTCATGAGCTGCACACATGAGCTGT
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR209171 representing NM_031618
 Red=Cloning site Green=Tags(s)

MSRSVLQPSQQKLAEKLTILNDRGVGMLTRLYNIKKACGDPKAKPSYLIDKNLESVAVKFIVRKFPVAVETR
 NNNQQLAQLQKEKSEILKNLALYYFTFVDVMEFKDHVCDLLNTIDVCQVFFDITVNFDLTKNYLDLTVTY
 TTLMILLSRIEERKAIIGLYNYAHEMTHGASDREYPRLGQMIVDYEHPLKMMMEEFVPHSKSLSDALISL
 QMVYPRRNL SADQWRNAQLLSLISAPSTMLNPAQSDTMPCEYLSLDAMEKWIIFGFILCHGMLNTEATAL
 NLWKLALQSSSLSLFRDEVFHIHKAEDLFVNIRGYNKRINDIRECKEAAVSHAGSMHRERRKFLRSAL
 KELATVLSQPGLLGPALFVFMALSFARDEIIWLLRHADNMPKKSADDFIDKHIAELIFYMEELRAHVR
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 FRLQAYTSVSKASLSLADHRELKGMNTIIFHTKMVDSLVEMLVETSLSIFCFYSRAFEKMFQOCELEP
 SQRYSIAFPLLCTHFMSCTHELCP EERHHIGDRSLSLCNMFLDEMAKQARNLITDICTEQCTLSQQLLP
 KHCAKTISSQAVNKKSKKQTGKKGEPEREKPGVESMRKNRLVVTNLDKLHTALSELCF SINYVPNMAVWEH
 TFTPREYLTSHLEIRFTKSI VGM TMYNQATQEI AKPSELLT SVRAYMTVLQSIENYVQIDITRVFNVL
 QQTQHLDSHGEPITISLYTNWYLETLLRQVSNHIA YFPAMKAFVNLPTENELTFNAEEYSDISEMRSL
 ELLGPYGMKFLSESLMWHISSQVAELKLVVENVVLDLQMR T SFDKPDQMAALFKRLSSVDSVLKRM TII
 GVILSFRSLAQEALRDVLSYHIPFLVSSIEDFKDHI PRETDMKVAMNVYELSSAAGLPCEIDPALVVALS
 SQKSENISPEEEYKIACLLMVFVAVSLPTLASNVMSQYSPAIEGHCCNNIHCLAKAINQIAAALFTIHKGS
 IEDRLKEFLALASSLLKIQETDKTTTRNRESVYLLLD MIVQESPF L TMDLLESCFPYVLLRNAYHAVY
 KQSVTSSA

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

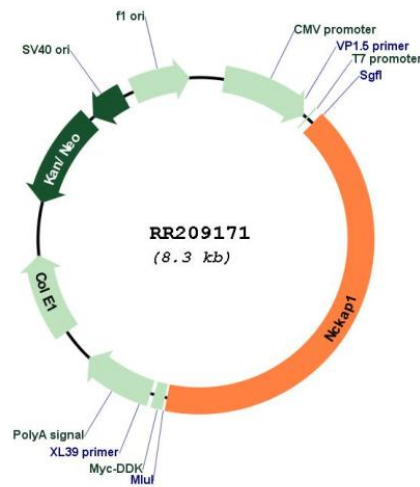
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_031618

ORF Size: 3384 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.

RefSeq: [NM_031618.1](#), [NP_113806.1](#)

RefSeq Size: 4270 bp

RefSeq ORF: 3387 bp

Locus ID: 58823

UniProt ID: [P55161](#)

Cytogenetics: 3q24

MW: 128.8 kDa

Gene Summary: interacts with Nck and may be involved in the downstream signaling of Nck [RGD, Feb 2006]