

Product datasheet for **MC206642**

Nckap1l (BC037096) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nckap1l (BC037096) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Nckap1l
Synonyms:	4930568P13Rik; AI463083; Hem1; Hemp1
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

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>BC037096
CCACGCGTCCGTCTTGTATCCGGATGGTCTCTCTCGGTGGCCATCATGTCTTTGACCTCTGCCTAT
CAGCTTAAATTAGCAGAGAAGCTCACGATCCTGAATGACCGAGGACAGGGAGTTTCATCCGCATGTACA
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CATCGTAAAAAGCTGAGATAATTAGATTCTCACTAACTATTACCAGTCATTTGTGGATGTCATGGAAT
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CCAGTTTTGCTCGCTGGCCAGATGGTATTAGAGTATGACCATCCTCTGAAGAAGCTGACAGAAGAATT
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TTCCCCCTGATTTGTGCTCATTTTGTCCACTGCGTTCATGAAATGTGCCAGAGGAGTACCCTCACCTGA
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AGAACCATGGTCTTCACCACTGCAACTCCTTCCTGGAAGATCTGGCCAAGCAGACCAGCAACTGTGTGCT
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 TCATCCCCTGAAGAAGAGTATAAGGTGGCATGCCTACTCTTGATCTTTCTTGCTGTTTCCCCTCCACTCC
 TTGCCACTGACCCGTCTTCTTCTTTCAGCATTGAGAAAGATGGCTACAACAACAACATCCACTGTTTGAC
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 CGTCTGCCAGCCAGTTCCCACTGAGGGCCCTTTGGAGGTGCCAAGAACCATGCTGCAAGTAAAGTTGCAG
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 GGGATAAGGAGGAATATCCAGGGCTGAGGAATCATGGAGAAGTGGACAGGCTGGGGCCATGGAGGACAAT
 TTATAGATAAAGGAGTGTGAACCACAAAAA

- Restriction Sites:** EcoRI-NotI
- ACCN:** BC037096
- Insert Size:** 3405 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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:** [BC037096](#), [AAH37096](#)
- RefSeq Size:** 3686 bp

RefSeq ORF: 3405 bp

Locus ID: 105855

Cytogenetics: 15 F3

Gene Summary: Essential hematopoietic-specific regulator of the actin cytoskeleton. Controls lymphocyte development, activation, proliferation and homeostasis, erythrocyte membrane stability, as well as phagocytosis and migration by neutrophils and macrophages (PubMed:19015308, PubMed:23424621). Component of the WAVE2 complex which signals downstream of RAC to stimulate F-actin polymerization (PubMed:23424621). Required for stabilization and/or translation of the WAVE2 complex proteins in hematopoietic cells (PubMed:19015308). Exhibits complex cycles of activation and inhibition to generate waves of propagating the assembly with actin. Also involved in mechanisms WAVE independent to regulate myosin and actin polymerization during neutrophil chemotaxis (By similarity).[UniProtKB/Swiss-Prot Function]