

## Product datasheet for **MC229401**

### **Nckap1 (NM\_001290745) Mouse Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Nckap1 (NM\_001290745) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Nckap1  
**Synonyms:** C79304; H19; Hem-2; Hem2; mh19; mKIAA0587; Nap1; p125Nap1  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC229401 representing NM\_001290745  
**Red**=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGTGCGCCTCCGTGCTGCAGCCCAGTCAGCAGAAGCTGGCGGAGAAGCTCACCATCTCAACGACCGGG  
GCGTCGGCATGCTCACGCGCCTCTACAACATCAAGAAGCAAGGACAAGTTTGAAGGCATGTGGCGACCC  
CAAGGCTAAACCCTCCTACCTTATTGACAAAAACCTGGAATCTGCTGTGAAATTCATAGTCAGAAAAATTT  
CCTGCTGTAGAAACGCGCAACAACAATCAACAGCTGGCACAGCTACAGAAAGAAAAATCAGAGATTCTGA  
AAAATCTGGCGTTGTATTACTTTACATTTGTAGATGTTATGGAATTTAAGGACCATGCTGTGACTTGCT  
GAATACTATTGACGTTTGCCAAGTCTTCTTTGATATTACTGTGAACCTTGATTTAACAAGAAGTACTTTA  
GACTTGACTGTAACCTATAACAATTAATGATACTGCTGTCCCGATTGAAGAACGGAAGGCAATCATTG  
GACTATACAATTATGCACATGAAATGACCCATGGAGCAAGTGACCGAGAATATCCACGCCTTGGTCAGAT  
GATTGTGGACTATGAAAACCTTTAAAAAAGATGATGGAAGAATTTGTACCCATAGCAAGTCTCTTTCA  
GATGCGCTAATTTCTCTCAGATGGTGTATCCTAGACGGAACCTTTCAGCAGACCAGTGGAGGAATGCC  
AGTTGCTGAGTCTCATCAGTGCACCCAGCACAATGCTTAATCCTGCGCAGTCGGACACTATGCCTTGTA  
ATATCTCTCCTTGGATGCAATGGAGAAATGGATCATCTTTGGCTTTATTCTGTGCCATGGGATGCTAAAT  
ACGGAGGCTACCGCACTGAACCTTTGGAAGCTAGCTCTTCAGAGTAGCTCTTGCCTCTCTCTCTTCGGG  
ATGAAGTTTTCCACATTCACAAAGCTGCAGAAGACTTATTTGTAACATTCGGGGCTACAATAAAGCTAT  
TAACGACATAAGAGAATGCAAGGAGGCGGCTGTATCCACGCGGCTCAATGCACAGAGAAAGACGCAAG  
TTTTTACGGTCTGCACTAAAAGAAGTGGCCACTGTCTCTGACCAGCCTGGCCTGCTTGGTCCCAAGG  
CACTTTTTGTTTTCATGGCGTTATCTTTGCCCGTATGAAATATCTGGCTGCTCCGTCACGCGGACAA  
CATGCCAAAGAAGAGTGCAGATGACTTTATAGATAAGCACATTGCTGAGCTAATATTTTACATGGAAGAG  
CTTAGAGCACATGTCAGGAAGTATGGCCTGTCATGCAGAGGACTACGTGCAATACCTCTCTGGCTTTG  
ATGCTGTTGTCCTCAATGAACCTGTGCAGAACCTGTCTGTTGCCCTGAGGATGAATCGATCATCATGTC  
CTCTTTGTGAACACCATGACCTCCCTAAGTGTGAAGCAAGTTGAAGATGGAGAAGTGGTTGATTTGAGA  
GGGATGAGATTAGATTGGTTTAGGTTACAGGCGTACACTAGCGTCTCAAAGCTTCACTTAGCCTTGCGAG



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ATCACAGAGAACTTGGAAAGATGATGAACACAATCATATTCCATACAAAAATGGTAGATTCTTGTTGA  
 AATGTTGGTGGAAACATCCGATCTCTCCATATTTTGTGTTTTACAGCCGTGCTTTTGAAGAAGATGTTTCAG  
 CAGTGGCTGGAGCTGCCCTCTCAGTCAAGATACTCCATTGCTTTCTCTGCTCTGCACTCACTTCATGA  
 GCTGCACACATGAACTGTGCTCTGAAGAGCGCCATCATATAGGAGATCGTAGCCTTTCCCTGTGCAATAT  
 GTTCTGGATGAGATGGCCAAACAAGCTCGAAATCTCATCACCAGATTTGCACAGAACAGTGTACTCTT  
 AGTGACCAGTTATTGCCGAAGCATTGTGCCAAAACCATCAGTCAAGCAGTGAATAAGAAGTCAAAAAAC  
 AGACGGGCAAGAAAGGGGAACCTGAAAGGGAAAAACCGGGTGTGGAGAGCATGAGGAAAAACAGGCTGGT  
 AGTGACC AACCTTGATAAGTTGCACACTGCACTTTCGGAGTTATGCTTCTCCATAAATTATGTTCCAAAC  
 ATGGCGGTGTGGGAGCACACCTTACGCGGAGGGAGTATTTGACTTCTCATCTGGAATCCGGTTACTA  
 AATCAATTGTTGGAATGACTATGTATAATCAAGCTACACAGGAAATGCAAAGCCATCAGAGCTTCTAAC  
 AAGCGTAAGAGCATATATGACTGTACTCCAGTCCATAGAGAATATGTGCAGATTGATATCACCAGAGTA  
 TTTAATAATGTCCTTCTCAGCAAACACAACACTTAGACAGCCATGGAGAACCAACCATCAGAGTCTGT  
 ATACAACTGGTACTTGGAACTTTATTAAGACAAGTCAAGTGGCCATATAGCTTATTTCTGCAAT  
 GAAAGCATTGTGAATTTACCCACAGAAAATGAATTAACATTCAATGCAGAGGAATATTCTGATATATCA  
 GAAATGAGATCATTATCAGAGCTCTAGGCCATATGGGATGAAGTTCTGAGTGAGAGCCTTATGTGGC  
 ACATTTTCATCACAAAGTAGCTGAACTTAAGAACTTGTGGTGGAGAATGTTGATGTTCTAACACAAATGAG  
 GACCAGCTTTGACAAACCAGACCAGATGGCTGCACTCTTAAAAGATTATCATCTGTTGACAGTGTCTTG  
 AAAAGGATGACGATAATTGGTGTATTTATCCTTCCGGTCATTGGCACAAGAAGCATTGAGAGATGTCC  
 TGTCTACCACATTCTTCTCGTGAGCTCCATTGAAGATTTCAAGGATCACATTCCTCGGAAACTGA  
 TATGAAGTTGCAATGAATGTGTATGAGCTGTCTCGGCTGTGGGTTACCATGTGAGATTGATCCTGCC  
 TTAGTCGAGCTCTTCTCACAAAAATCAGAGAACATTAGTCCAGAGGAAGAATACAAGATCGCTGTGC  
 TCCTGATGGTCTTTGTAGCAGTTTCTTGCCTACACTGGCCAGCAATGTAATGTACAGTACAGCCCTGC  
 AATAGAAGGACACTGCAACAATATACATTGTTTGGCCAAAGCCATCAACCAGATTGCTGCAGCTTTGTTT  
 ACAATTACAAAAGGAAGTATTGAAGACCGACTTAAGGAATTCCTGGCGCTTGCATCATCCAGTCTACTGA  
 AAATTGGCCAAGAGACAGATAAACTACAACAAGAAATAGAGAATCTGTTTATTTGCTACTGGATATGAT  
 TGTACAAGAATCACCATTCTGACAATGGATCTTGGAACTTGTGTTTCTTATGTGTTGCTGAGAAAT  
 GCATACCATGCTGTCTACAAACAAAGTGTACATCTTCTGCATAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001290745
- 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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\_001290745.1, NP\_001277674.1

**RefSeq Size:** 4421 bp

**RefSeq ORF:** 3405 bp

**Locus ID:** 50884

**Cytogenetics:** 2 48.21 cM

**Gene Summary:** Part of the WAVE complex that regulates lamellipodia formation. The WAVE complex regulates actin filament reorganization via its interaction with the Arp2/3 complex. Actin remodeling activity is regulated by RAC1. As component of the WAVE1 complex, required for BDNF-NTRK2 endocytic trafficking and signaling from early endosomes (PubMed:27605705). [UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (a).