

## Product datasheet for **SC308232**

### **NCKAP1 (NM\_205842) Human Untagged Clone**

#### **Product data:**

**Product Type:** Expression Plasmids  
**Product Name:** NCKAP1 (NM\_205842) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** NCKAP1  
**Synonyms:** HEM2; NAP1; NAP125; p125Nap1  
**Vector:** pCMV6 series  
**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_205842, the custom clone sequence may differ by one or more nucleotides

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ATGTGCGCTCAGTGCTGCAGCCAGTCAGCAGAAGCTGGCGGAGAAGCTCACCATCCTC
AACGACCGGGGCGTCGGCATGCTCACCCGCTCTACAACATCAAGAAGCAAGGACAAGTT
TGGAAAGGCATGTGGAGACCCCAAGGCAAAACCATCCTATCTTATCGACAAAAACCTGGAA
TCTGCTGTGAAATTCATAGTCAGAAAATCCCTGCTGTAGAAACCCGCAACAACAATCAA
CAGCTTGACAACACTACAGAAAGAAAAATCAGAGATTCTGAAAAATCTGGCATTATATTAC
TTCACATTTGTAGATGTTATGGAATTTAAGGACCATGTTTGTGAATTGCTGAATACTATT
GACGTTTGCCAAGTCTTCTTTGATATTACTGTAACTTTGATTTAACAAAGAACTACTTA
GATTTAATTATAACCTATACAACACTAATGATACTGCTGTCTCGAATTGAAGAAAGGAAG
GCAATCATTGGATTATACAACACTATGCCCATGAAATGACTCATGGAGCAAGTGACAGAGAA
TACCCACGCTTTGGCCAGATGATTGTGGATTATGAAAACCTTTAAAGAAGATGATGGAA
GAATTTGTACCCCATAGCAAGTCTCTTTCAGATGCACTAATTTCTCTTCAAATGGTATAT
CCTCGAAGGAATCTTTCAGCTGACCAGTGGAGAAAATGCCAGTTATTGAGCCTCATCAGT
GCACCTAGTACAATGCTTAATCCAGCACAGTCCGACACTATGCCTTGTGAATACCTCTCT
TTGGATGCAATGGAAAAGTGGATTATCTTTGGCTTTATTTTGTGCCATGGGATCCTAAAT
ACTGACGCTACAGCACTGAACCTTTGAAAAGTCTCTTCAAAGTACTCTTGCCTCTCT
CTCTTTTCGGGATGAAGTTTTCCACATTCACAAAGCTGCAGAAGACTTATTTGTAACATA
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GCTGGTTCAATGCACAGAGAAAGACGCAAGTTTTTAAGATCTGCACTGAAGGAATTGGCT
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TTATCCTTTGCCGTGATGAAATCATCTGGCTACTTCGTCATGCAGATAACATGCCAAAG
AAGAGTGCAGACGACTTTATAGATAAGCACATTGCTGAATTAATATTTTACATGGAAGAA
CTTAGAGCACATGTGAGGAAATACGGACCTGTAATGCAGAGGTATTACGTGCAGTACCTT
TCTGGCTTTGATGCTGTTGTCCTCAATGAACCTCGTGCAGAAATCTTCTGTTTGCCTGAA
GATGAATCAATCATCATGCTCTTTTGTAACTATGACTTCCCTAAGTGTAACAA
GTTGAAGATGGGGAAGTATTTGATTTTCAGAGGAATGAGATTAGATTGGTTTAGGTTACAG
GCATATACTAGTGTCTCAAAGGCTTCACTTGGCCTTGAGATCACAGAGAACTTGGAAAAG
ATGATGAATACAATAATTTTTTACAAAAATGGTAGATTCCCTTGGTGGAAATGTTGGTG
GAAACATCAGATCTCCATATTTTGTATAGTCGTGCTTTTGGAGAAGATGTTTCAA
CAGTGTGGAGTTACCTCTCAATCAAGATACTCAATTGCATTTCCACTACTTTGCAC

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CATTTTATGAGTTGCACGCATGAACTATGTCCAGAAGAGCGACATCATATTGGAGATCGC  
 AGTCTTTCCTTATGTAATATGTTCTAGATGAAATGGCCAAACAAGCTCGAAATCTCATC  
 ACTGATATTTGCACAGAACAGTGTACCCTTAGTGACCAGTTGCTACCCAAGCATTGTGCC  
 AAAACTATCAGTCAAGCAGTGAATAAGAAATCAAAAAAGCAGACTGGTAAGAAAGGGGAA  
 CCTGAAAGGGAGAAACCAGGTGTTGAGAGCATGAGGAAAAACAGGCTGGTTGTGACCAAC  
 CTTGATAAATGCACACTGCACCTTCTGAGTTATGCTTCTCTATAAATTATGTACCAAC  
 ATGGTGGTATGGGAACATACCTTTACCCACGAGAATTTTGACTTCTCATCTGGAAATA  
 CGCTTTACCAAGTCAATTGTTGGGATGACTATGTATAATCAAGCCACACAGGAAATTGCA  
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 GAAATGAGGTCATTATCAGAACTACTAGGCCCATATGGTATGAAGTTTCTAAGTGAAGC  
 CTTATGTGGCATATTTATCACAAGTTGCTGAACTTAAGAACTTGTGGTGGAGAATGTT  
 GATGTGTTAACACAAATGAGGACCAGCTTTGACAAACCAGACCAGATGGCTGCACGTGTT  
 AAAAGATTATCATCTGTTGACAGTGTCTTGAAGAGGATGACAATAATTGGTGAATTTT  
 TCCTTCCGATCATTGGCACAAGAAGCACTTAGAGATGTCTTATCCTACCACATTCCTTTT  
 CTTGTAAGTTCAATTGAAGATTTAAGGATCACATTCCAAGGGAAACTGATATGAAGGTT  
 GCAATGAATGTGTATGAGTTATCATCAGCTGCCGATTACCTTGTGAGATTGATCCTGCA  
 TTGGTCGTAGCTTTTCTTCAAAAAATCGGAAAAACATTAGTCCAGAAGAAGAGTATAAA  
 ATTGCTGCCTTCTCATGGTGTGTTGGCAGTTTCTTTGCCAACACTGGCCAGTAATGTG  
 ATGTCTCAGTACAGCCCTGCTATAGAAGGCATTGCAACAACATACATTGCTTGGCCAAA  
 GCCATCAACCAGATTGCTGCAGCTTTGTTTACAATTACAAAGGAAGCATTGAAGACCGT  
 CTTAAAGAATTTCTGGCGTTGCATCCTCCAGTCTACTGAAAATTGGCCAGGAGACAGAT  
 AAAACTACAACAAGAAATAGAGAATCTGTTTATTTACTGCTAGATATGATTGTACAAGAA  
 TCTCCATTCCTTACAATGGATCTTTTGAATCTTGTTCCTTATGTCTTGCTGAGAAAT  
 GCATACCATGCTGTCTACAAACAAGTGTACATCTTCTGCATAA

**Restriction Sites:**

Please inquire

**ACCN:**

NM\_205842

**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:**

This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_205842.1](#), [NP\\_995314.1](#)

RefSeq Size: 4637 bp

RefSeq ORF: 3405 bp

Locus ID: 10787

UniProt ID: [Q9Y2A7](#)

Cytogenetics: 2q32.1

Protein Families: Druggable Genome

Protein Pathways: Regulation of actin cytoskeleton

**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.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) contains an alternate in-frame exon in the 5' coding region, compared to variant 1. The encoded isoform (2) is shorter than isoform 1.