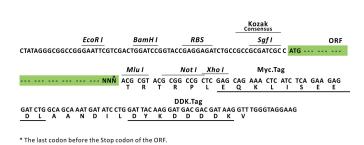


# Product datasheet for RC201960L3

## NCKAP1 (NM\_013436) Human Tagged Lenti ORF Clone

### **Product data:**

#### **Product Type: Expression Plasmids Product Name:** NCKAP1 (NM 013436) Human Tagged Lenti ORF Clone Tag: Myc-DDK Symbol: NCKAP1 Synonyms: HEM2; NAP1; NAP125; p125Nap1 Mammalian Cell Puromycin Selection: Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092) E. coli Selection: Chloramphenicol (34 ug/mL) The ORF insert of this clone is exactly the same as(RC201960). **ORF** Nucleotide Sequence: **Restriction Sites:** Sgfl-Mlul **Cloning Scheme:** Cloning sites used for ORF Shuttling: ORF Sqf I Mlu I --- GCG ATC GC C ATG --- //--- NNN ACG CGT ---



ACCN: ORF Size: NM\_013436 3384 bp

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|                   | NCKAP1 (NM_013436) Human Tagged Lenti ORF Clone – RC201960L3                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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. <u>More info</u>                                                 |
| 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 M  | <ul> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ul> |
| RefSeq:           | <u>NM 013436.3</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| RefSeq Size:      | 4997 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| RefSeq ORF:       | 3387 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Locus ID:         | 10787                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| UniProt ID:       | <u>Q9Y2A7</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Cytogenetics:     | 2q32.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Protein Families: | Druggable Genome                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Protein Pathway   | s: Regulation of actin cytoskeleton                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| MW:               | 128.8 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Gene Summary:     | Part of the WAVE complex that regulates lamellipodia formation. The WAVE complex<br>regulates actin filament reorganization via its interaction with the Arp2/3 complex. Actin<br>remodeling activity is regulated by RAC1. As component of the WAVE1 complex, required for<br>BDNF-NTRK2 endocytic trafficking and signaling from early endosomes.[UniProtKB/Swiss-Prot<br>Function]                                                                                                     |

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