

## Product datasheet for **RC219478**

### **NCKAP5L (NM\_001037806) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** NCKAP5L (NM\_001037806) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** NCKAP5L  
**Synonyms:** Cep169; FP1193; KIAA1602  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC219478 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGACCAGCCAGCTGGGGTCTGGAACCCAAGGCCAGGAGAGGGTGATGATGGCAGCATGGAGCCAG  
 GCACCTGCCAGGAGCTTCTGCACCGACTGCGGGAGCTGGAGGCAGAGAACTCGGCACTTGCCAGGCCAA  
 CGAAAACCAGCGGAGACTTATGAGCGCTGTCTGGACGAGGTCTGTGGGTCTGTAGTGGGACTGGGGGA  
 TGTGGCTCATCTGCTCCTGGCAGAAGCTGGGGTCAGCTGATGGCTCTGCCTCGGGGCTTCTGTCCCGAG  
 GTTGCCAACCATGTGGTACAGGCGTTGCTGAACCAGAAGGTGAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC219478 protein sequence  
 Red=Cloning site Green=Tags(s)

MDQPAGGPGNPRPGEADDGSMPEPGTCQELLHRLRELEAENSALAQANENQRETYERCLDEVCGSVVGLGG  
 CGSSAPGRSWQLMALPRGFLSPGCQPCGTGVAEPEGE

**TR**TRPLE**QKLISEEDLA**NDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6458\\_b03.zip](https://cdn.origene.com/chromatograms/mk6458_b03.zip)

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**


**ACCN:** NM\_001037806

**ORF Size:** 324 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_001037806.2](#)

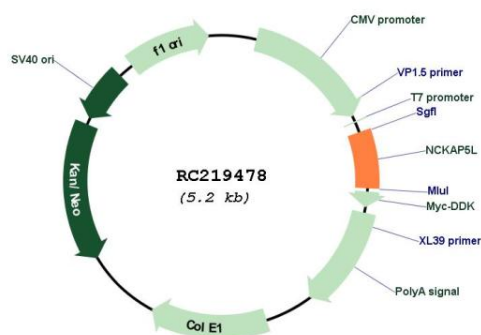
**RefSeq Size:** 4918 bp

**RefSeq ORF:** 4005 bp

**Locus ID:** 57701  
**UniProt ID:** [Q9HCHO](#)  
**Cytogenetics:** 12q13.12  
**MW:** 11.2 kDa

**Gene Summary:** Regulates microtubule organization and stabilization. Promotes microtubule growth and bundling formation and stabilizes microtubules by increasing intense acetylation of microtubules (PubMed:26482847, PubMed:26485573). Both tubulin-binding and homodimer formation are required for NCKAP5L-mediated microtubule bundle formation (PubMed:26485573).[UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for RC219478