

## Product datasheet for MR201297

### Cep19 (NM\_025892) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cep19 (NM\_025892) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Cep19  
**Synonyms:** 1500031L02Rik; AI428934; AL022620  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR201297 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAAATACATTGCCAAGAAATGTGGAGTTAGGTTCCAGCCTCCAGCTGTGATCTTGATTTATGAGAATG  
 AAACCGAAGGAAAGAGCCGCCAGCGTATCATGCCTGTCCGAAACTTTTCAAAGTTCTCAGATTGCACCAG  
 AGCTGCGGAACAGTTAAGAATAACCCACGGCACAAGAGTTACCTGGAACAGGTGCCCTGAAGCAGCTG  
 GAGAAGCTGTTTGTGTTTTTTCGAGGTTCTTGCAGGGGCAGAGCTTGGCAGAAACAATGGAACAGATTC  
 GGCGGAAACGACCATCGATCCCGAGGAAGACCTGAACAACTGGACGACAAGGAGCTCGCCAAAAGGAA  
 GAGCATCATGGATGAGCTTTTCGAGAAAAATCAGAAGAGAAAGGACGCCCACTTTTGTGTACGACGTC  
 GAGGTGGAGTTCCCTCAGGATGAACAGCTGCTGTCTGCAGCTGGGACACAGCGTCAGTGGATGACTTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR201297 protein sequence  
 Red=Cloning site Green=Tags(s)

MKYIAKCCGVRFQPPAVILIIYENETEGKSRQRIMPVRNFSKFSDCRTRAEQLKNNPRHKSYLEQVPLKQL  
 EKLFVFLRGSLLQGQSLAETMEQIRRETTIDPEEDLNKLLDDKELAKRKSIMDELFEKNQKRKDDPTFVYVD  
 EVEFPQDEQLLSCSWDTASVDDF

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI



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Cloning Scheme:



ACCN: NM\_025892

ORF Size: 492 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.

RefSeq: [NM\\_025892.3](#)

RefSeq Size: 1701 bp

RefSeq ORF: 492 bp

Locus ID: 66994

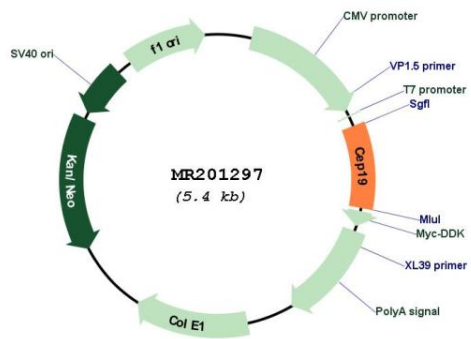
UniProt ID: [Q9CQA8](#)

**Cytogenetics:** 16 B2

**MW:** 19.2 kDa

**Gene Summary:** Required for ciliation. Recruits the RABL2B GTPase to the ciliary base to initiate ciliation. After specifically capturing the activated GTP-bound RABL2B, the CEP19-RABL2B complex binds intraflagellar transport (IFT) complex B from the large pool pre-docked at the base of the cilium and thus triggers its entry into the cilia. Involved in the early steps in cilia formation by recruiting the ciliary vesicles (CVs) to the distal end of the mother centriole where they fuse to initiate cilium assembly. Involved in microtubule (MT) anchoring at centrosomes. [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR201297