

## Product datasheet for MC225139

### Ckap5 (NM\_001165989) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ckap5 (NM_001165989) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ckap5
Synonyms:	3110043H24Rik; 4930432B04Rik; D730027C18Rik; mKIAA0097; T25636
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC225139 representing NM_001165989 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGGAGATGACAGTGAGTGGTTGAAATTACCAGTTGATCAGAAATGTGAACACAAGCTATGAAAGCAA  
GATTAAGTGGGTATGAAGAAGCCTTGAAGATCTCCAGAAAATAAAGGATGAAAAGAGTCCAGAATGGTC  
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TGCTATAGAGATTTATCGATGGAATCGAGATGCTGTGAAACACACACTACAAAATATAAATCTGTCCAG  
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CCAAGCCTCTACCTGGAAGGGCTGCAGCATCAGGGGCTGCAGGGGACAAAGACACAAAAGATGTTTCAGG  
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 CATGACCTCTCTCTCCACAACACTAACATTGATGACTTGAAAAAGAGACTGGAGAGAATAAAGAGCAGT  
 CGCAAA**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001165989
- Insert Size:** 6099 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).
- 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\\_001165989.1](#), [NP\\_001159461.1](#)
- RefSeq Size:** 6584 bp
- RefSeq ORF:** 6099 bp
- Locus ID:** 75786
- Cytogenetics:** 2 E1

**Gene Summary:**

Binds to the plus end of microtubules and regulates microtubule dynamics and microtubule organization. Acts as processive microtubule polymerase. Promotes cytoplasmic microtubule nucleation and elongation. Plays a major role in organizing spindle poles. In spindle formation protects kinetochore microtubules from depolymerization by KIF2C and has an essential role in centrosomal microtubule assembly independently of KIF2C activity. Contributes to centrosome integrity. Acts as component of the TACC3/ch-TOG/clathrin complex proposed to contribute to stabilization of kinetochore fibers of the mitotic spindle by acting as inter-microtubule bridge. The TACC3/ch-TOG/clathrin complex is required for the maintenance of kinetochore fiber tension. Enhances the strength of NDC80 complex-mediated kinetochore-tip microtubule attachments.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.