

## Product datasheet for **RC206011**

### CP110 (CCP110) (NM\_014711) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CP110 (CCP110) (NM_014711) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CP110
Synonyms:	Cep110; CP110
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC206011 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGGAGTATGAGAAGTTCTGTGAAAAAGTCTTGCCAGAATACAAGAAGCATCACTATCCACAGAGA  
GCTTTCTCCCTGCTCAGTCTGAAAGTATCTCACTATTTCGCTTTCATGGAGTGGCTATCCTTTCTCCACT  
GCTTAACATTGAGAAAAGAAAGGAAATGCAACAAGAAAAGCAGAAAGCACTTGATGTAGAAGCAAGAAAG  
CAGGTTAACAGGAAGAAAGCTTTACTGACTCGTGTCCAGGAGATTCTTGACAATGTTGAGTTAGAAAAG  
CACCTAATGCCAGTGATTTTGATCAGTGGGAGATGAAACAGTTACTCTAATTCAGAAGTCAGAAACTT  
GAATGTTCTGCTACATTTCCAAATAGCTTTCCAAGCCATACGGAACACTCTACTGCAGCAAAGCTTGAT  
AAGATAGCTGGGATTTTGCCATTGGATAATGAGGACCAATGTA AAACTGATGGAATAGACTTAGCTAGAG  
ATTCAGAAGGATTTAATTCTCCGAAGCAATGTGATAGTTCCAATATTAGTCATGTAGAAAATGAAGCTTT  
TCCAAAGACCTCTTCAGCAACCCACAAGAACTCTTATTTCTGATGGTCCCTTCTCAGTAAATGAACAA  
CAGGATCTACCACTTTTGGCAGAAGTCATCCAGATCCCTATGTAATGAGTCTTCAGAATCTGATGAAAA  
AGTCAAAGGAATATATAGAAAGAGAACAATCTAGACGCAGTCTGAGAGGTAGTATGAACAGAATTGTTAA  
TGAGAGTCATTTAGACAAAGAACATGATGCTGTGAAAGTGGCTGACTGTGTA AAAAGAGAAAGGCCAGTTG  
ACAGGCCAAACACTGTGTCTCAGTTATTCCTGACAAACCAAGCCTTAATAAATCAAATGTTCTTCTCCAAG  
GTGCTTCCACTCAAGCAAGCAGCATGAGTATGCCAGTTTTAGCTAGCTTTTCGAAAAGTGGACATACCTAT  
ACGAACTGGCCATCCCACTGTTCTAGAGTCTAATTCTGATTTTAAAGTTATTCCTACTTTTGTACCAGAA  
AATAATGTTATCAAAAGTCTTACAGTTTCATATGCCAAATTACCTAGTCCAGAGCCAAGTATGAGTCCTA  
AAATGCACCGAAGACGTTCCAGGACATCATCAGCGTGTCAATACTTATAAATAACCCAATAAATGCCTG  
TGAATTAAGCCCTAAAGGAAAAGAACAGGCAATGGACTTAATTATTCAAGATACTGATGAAAACACAAAT  
GTGCCCGAAATTATGCCAAAGTTACCAACTGATTTAGCGGGAGTTTGTTCAGCAAGGTTTATGTGGCA  
AAAATACATCTGAAGTCAAAGAAGATGTGGTTTTAGGTAATCAAATCAGGTATGTCAATCTTCAGGAAA  
TCATTTAGAAAATAAAGTTACTCATGGACTTGTACTGTGGAAGTTCAGTTAACATCCGATGAGAGAGGC



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GCACACATAATGAACAGTACCTGTGCTGCGATGCCAAAGCTGCATGAACCATATGCCAGCAGTCAGTGTA  
 TAGCAAGTCCAACTTTGGAAGTGTGAGTGGACTCAAGCCAGCCAGTATGTTAGAGAAAACTGCAGTTT  
 GCAAACAGAACTGAATAAGTCTTATGATGTAAAAAACCTTCTCCTTTATTGATGCAAAACCAGAATACG  
 AGACAGCAGATGGACACACCTATGGTGTCTGTGGAAATGAACAATTTTGGATAACAGTTTTGAGAAAG  
 TTAACCGGAGACTTGATTTAGATATTGATGGTTTGCAAAAAGAAAAGTCCCTTATGTCATAACAAGTGG  
 AATAAATGTTAGGAACTAGTTCCAAGAAAGCGAGGAGTTACTAAAAAGCAAGATGTTAGCTTTTGAAG  
 AAATGCGGAAGAGACTAGAAGAACAGCAGCCAGCAATTATCACTACTCATAGCTGAGCAGGAAAGGGA  
 ACAAGAAAGACTGCAAAAGGAAATAGAAGAGCAGGAGAAAATGTTAAAAGAGAAGAGGCAATGACAGCG  
 GAAGCCTCTGAGTTGGACATTAACAATGCAGTGGAAATAGAATGGAGAAAAATAAGTACTCTAGTTTGC  
 TGGAAACAATGCTGTCTCAAGCGGACTCACTCCATACTTCAAATCAAATAGTTCTGGTTTACAAAATTC  
 TGCCATGCAATATAGCTTTGTTTCTGCAAAACGAAGCACCATTCTACCTCTGGGGATCATCAACTAGTGGC  
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 AAATAACAAGCAAAATTTAACAAAATAACTGCAGTGGCAAAAGGATTTCTACTCGTAGACTTATGCAGAC  
 AGATAAGCTGAAGCAACTTCGACAAAAGTAAAAGATACTATGGAATTCATAAGAAGTTTTAGTCTAGAA  
 GCACCATTAAAGAGAGGCATTGTTTCAGCTCAAGATGCTTCACTTCAGGAAAGAGTGTAGCTCAGTTGC  
 GAGCTGCCTTGTACGGTATTCATGACATATTCTTTGTAATGGATGCAGCTGAAAGAATGTCTATTCTACA  
 TCATGATCGAGAAGTTCGAAAGAGAAAATGCTCAGGCAATGGATAAAATGAAAAGTCCACGAGTGGCT  
 CTTTCAGCTGCAACACAGAAGTCTTGTAGAGAAATACATGAAAGCTGCTGAAATGGGAATGCCAA  
 ATAAGAAATTTCTGGTTAAACAAAATCCTTCTGAAACAAGAGTCTTCAGCCAAACCAAGGACAGAATGC  
 ACCTGTTTATAGGCTACTTAGTAGACAAGGAGTATATGCAGGAAAAATCCAAGAAAGCGGCCAAATGT  
 TCGGACAATTTAAGAAGACAACATTCATTAGGA

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGAT AAGGTTTAA

**Protein Sequence:**

>RC206011 protein sequence  
 Red=Cloning site Green=Tags(s)

MEEYEKFCESLARIQEASLSTESFLPAQSEISLIRFHGVAILSPLLNIEKRKEMQQEKKALDVEARK  
 QVNRKALLTRVQEILDNVQVRKAPNASDFDQWEMETVYSNSEVRNLNVPATFPNSFPSHTEHSTAAKLD  
 KIAGILPLDNEDQCKTDGIDLARDSEGFNSPKQCDSSNISHVENEAFPKTSSATPQETLISDGPFSVNEQ  
 QDLPLLAEVIPDPYVMSLQNLMKKSKEYIEREQSRRSLRGSNMRIVNESHLDKHEHDAVEVADCVKEKGQL  
 TGKHCVSVIPDKPSLNKSNVLLQGASTQASSMSMPVLASF SKVDIPIRTGHPTVLESNSDFKVIPTFVTE  
 NNVIKSLTGSYAKLPSPSPMSPKMHRRSRTSSACHILINNPINACELSPKGKEQAMDIIQD TDENTN  
 VPEIMPKLPTDLAGVCSSKVVYVGKNTSEVKEDVVLGKSNQVCQSSGNHLENKVTHGLVTVEGQLTSDERG  
 AHIMNSTCAAMPKLHEPYASSQCIASPNGFTVSLGKPAASMLEKNCSLQTELNKSVDVKNPSPLLMQNQNT  
 RQQMDTPMVSCGNEQFLDNSFEKVKRRLLDIDGLQKENCYPYVITSGITEQERQHLPEKRYPKGSGFFNK  
 NKMLGTSSKESEELLKSKMLAFEEMRKRLEEQAQQLSLLIAEQEREQERLQKEIEEQEKMLKEKKAMTA  
 EASELDINNAVELEWRKISDSSLLETMLSQADSLHTSNSSSGFTNSAMQYSFVSA NEAPFYLWGSSTSG  
 LTKLSVTRPFGRKTRWSQVFSLEIQAFNKITAVAKGFLTRRLMQTDKLLQLRQTVKDTMEFIRSFQSE  
 APLKRGIVSAQDASLQERVLAQLRAALYGIHDIFFVMDAAERMSILHHDREVRKEKMLRQMDKMKSPRVA  
 LSAATQKSLDRKKYMKAAEMGMPNKKFLVKQNPSETRVLQPNQGNAPVHRLLSRQGSICRKNPKKAACK  
 CDNLRRQHSLG

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6141\\_b11.zip](https://cdn.origene.com/chromatograms/mk6141_b11.zip)

**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



ACCN: NM\_014711

ORF Size: 2973 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_014711.3](#), [NP\\_055526.2](#)

**RefSeq Size:** 5515 bp

**RefSeq ORF:** 2976 bp

**Locus ID:** 9738

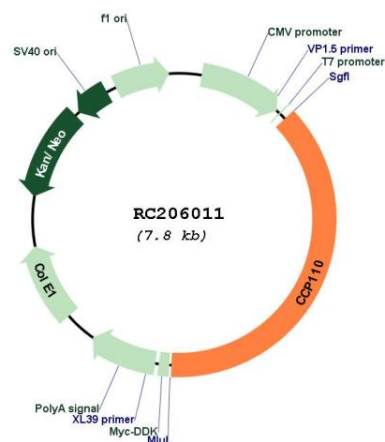
**UniProt ID:** [O43303](#)

**Cytogenetics:** 16p12.3

**MW:** 111.3 kDa

**Gene Summary:** Necessary for centrosome duplication at different stages of procentriole formation. Acts as a key negative regulator of ciliogenesis in collaboration with CEP97 by capping the mother centriole thereby preventing cilia formation (PubMed:17719545 PubMed:17681131, PubMed:23486064). Also involved in promoting ciliogenesis. May play a role in the assembly of the mother centriole subdistal appendages (SDA) thereby effecting the fusion of recycling endosomes to basal bodies during cilia formation (By similarity). Required for correct spindle formation and has a role in regulating cytokinesis and genome stability via cooperation with CALM1 and CETN2 (PubMed:16760425).[UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for RC206011