

Product datasheet for MC223165

Ccp110 (NM_182995) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ccp110 (NM_182995) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ccp110
Synonyms:	6330503K22Rik; AA415922; AI427129; AW557948; CP110
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC223165 representing NM_182995 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGAATATGAGGAGTTCTGCGAGAAAGCACTTGCCGAGCTCAGGAAGCATCGCTGTCCACAGGCA
GCTTCCTGCCGCTCAGGCAGAAAGTGTCTCACTCATCCGTTTCCATGGGGTGGCTGTACTTTCTCCACT
GCTTACCATTGAGAAGAGAAAAGAAAATTCAGAGGAAAAGCAGAAAGCACTTGATGTGCAGTCAAGAAAG
CAGGCCAACAGGAAGAAAGCCTTACTGACTCGTGTCCAGGAGATTCTTGAATGTTAGGTTAGAAAAG
CACCAAATGCCAGTGATTTTGTAGTGGCAACAGAAACCTTTACTCTAATCCAGAAGTCACAGACTT
GAATGTTCTGTAGAGTTCCAACAGCTTGCCGAGCCCCACCGAACACTGTACTTCAGTAAAGCTTGAA
AAGATAACTGGACTTTTGCTGTGAATAATGAGGACCAACAAACCCCTAAGCGGGTGGGGCTGCCTGGAG
ACTCAGAGGTGTCTGGTTCTCTGAGGCAGTGTGAGAGTCCAGAAAGCAGGCAGGCAGAAGATGGAGCTGC
TCTAAGGCTTTCTCAGCAAGCCACAGGAGACCATCATTTCTGATGTCTTAGGAAAGGAAGAACAGGAC
CCATCATGTTTGGCTGAAGTCACTCCAGATCCCTACATAATGAGCCTTCAGAATCTAATGAAGAGGTCAA
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GCATTCAGACAGAGAAAACGATGCTGCTAAGGCGAGCGACTGTGTAAAGGAGAAGGCCCCACCCATGCC
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AGCTGCTCCTCCCGTGTCCAGATGCCGGATCAGATTTTACAGTTATTCTACCTTTGTTACTGAAAAT
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GAGCCCAAAGGGGAAAGAAGAGGAGTGGATAGAACCCTCCAGCTGCTGCTGAGACAACAAATGAGTCT
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CGTCTGAGAGCACAAGAGAGATGGTCTGGGTAAGCCAAGTCCAGGCGAGGCTTTAGGAGCTCACTT
AGGCAATAACGTCACTGTTGAGCGGTCTGCTATGGAAGTCCCTTCATAGCTGATGACAGGGGAGCCAG
AAGGTGGACGGTACTTGTATGGCTGTGCCCAAGTTGCATGAAGTGCAGCCAGCAGTCACTGTGTGTC



GTCAAACCTTGG AAGATGTGTG TGAAC TCAAGTCAGCCAGTCTGCTAGCAAAGA ACTCCTGCAACTTACA
 AATGGAAC TGAATAAATCTTACGATGTGAAACACCCATCTCCCTTACTTACGCAAACCCAGACTTCCAGA
 CAGCAGATGGACACACCGCCGGTGTCCGTGGAACGAGCAGTTTGTAGATAACAGTTTTGAGAAAGTTA
 AGCGGAGACTTGATTTAGATGTTGATAGTTTACAAAAAGAAAATTGTCCTTATATTATAACAGCTGGAGT
 AGCTGAGCAGGAGCGGGACCGTCTGCTGGAAGAAGATACCCCAAGGGATTGTCACATTAACAAGAAT
 AAGATGCTAGAACTAGCCCCAAAGAAGCCAGGA ACTGAAAAGCAAGATGTTAGCTTTTGAAGAAA
 TGCGAAAGAGACTAGAGGAACAGCATGCCAGCAGTTGTCACCTCATAGCTGAGCAGGAGAGGGAGCA
 GGAGCAACTGCAAAGGAAATAGAAGAGCAGGAGAAGATGCTGAAGGAGAAGGCAGTTACGACGGACGTC
 TCTGACTTGAACAGTGC ACTGGAGTGGAGACAAAGAACC GATTCTGCTTTGCTAGAAACCATGCTGTCCC
 AAGTGGACTCACTCCAGACTTCAAACA ACTCTGGCTTCATAACTTCTGCCCTGCAGTACAGCTTCGGCTC
 TGCAGGTGAAGCACCGTTCTACCTCTGGGGATCACTGACCAGTGGCGTGACCAGAGTCTCAGGAACAAGG
 CCTTGTGGACGGGCCAAGCTAAATGGTCTCAGGTTTTTAAATCCAGAAATACACGCAAAATTTAATAAAA
 TAACTGCCGTGGCAAAGGGTTTCTTACTCGTAACTTATGCAAACAGACAAACTGAAGCAGCTTCGACA
 AACTGTAAAGACACCATGGAATTCATACGAAGTTTTTCAGTCAGAAGCCCCTCTGAAGAGAGGTGTCGTC
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 GAAACTGCTCCGGCAAATGGATAAGATGAAAAGTCCACGAGTGGCGCTTTCAGTGGAACACAGAAGTCC
 CTGGACAGGAAGAAGTTCATGAAAGTTGCTGAGATGGGAATGCCAAATAAGAAGTTCTGCTTAAACAAA
 ACCCCTCAGAAACAAGAGTCTTTCAGCCAAACCAAGGACAGAAATGCACCCGTTTATAGGCTACTTAGTAG
 ACAAGGAACCCCTAAGACTTCAGTGAAGGGGTTGTGCAAAATAGACAGAAGCCTTCACAGAGCAGAGTG
 CCTAACAGAGCGCCTGTGTCAGGAGCATATGCAGGAAAAACCCAAAGAAAGCGGCCAAATGTTGCGACAA
 TTTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_182995
- Insert Size:** 3015 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_182995.1](#), [NP_892040.1](#)
- RefSeq Size:** 5024 bp
- RefSeq ORF:** 3015 bp

Locus ID: 101565

UniProt ID: [Q7TSH4](#)

Cytogenetics: 7 F2

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:23141541). 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 (PubMed:26965371). Required for correct spindle formation and has a role in regulating cytokinesis and genome stability via cooperation with CALM1 and CETN2 (By similarity).[UniProtKB/Swiss-Prot Function]