

Product datasheet for MR211433

Ccp110 (NM_182995) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ccp110 (NM_182995) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ccp110
Synonyms:	6330503K22Rik; AA415922; AI427129; AW557948; CP110
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR211433 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGAATATGAGGAGTTCTGCGAGAAAGCACTTGGCCGAGCTCAGGAAGCATCGCTGTCCACAGGCA
GCTTCCTGCCGCTCAGGCAGAAAGTGTCTCACTCATCCGTTTCCATGGGGTGGCTGTACTTTCTCCACT
GCTTACCATTGAGAAGAGAAAGAAAATCAAGAGGAAAAGCAGAAAGCACTTGTGTGCAGTCAAGAAAG
CAGGCCAACAGGAAGAAAGCCTTACTGACTCGTGTCCAGGAGATTCTTAAAAATGTTTCAAGTTAGAAAAG
CACCAAATGCCAGTGATTTTGTAGTGGCAACAGAAACCATTACTCTAATCCAGAAGTACAGACTT
GAATGTTCTGTTAGAGTTCCAAACAGCTTGGCCGAGCCACCGAACACTGTACTTCAGTAAAGCTTGAA
AAGATAACTGGACTTTTGCCGTGTAATAATGAGGACCAACAAACCCTAAGCGGGTGGGGCTGCCTGGAG
ACTCAGAGGTGTCTGTTCTCTGAGGCAGTGTGAGAGTCCAGAAAGCAGGCAGGCAGAAGATGGAGCTGC
TCTAAGGCTTTCTCAGCAAGCCACAGGAGACCATCATTTCTGATGTCTTAGGAAAGGAAGAACAGGAC
CCATCATGTTTGGCTGAAGTCACTCCAGATCCCTACATAATGAGCCTTCAAGATCTAATGAAGAGGTCAA
AGGAATACGTGGAAGAGAACTGTCTAGCCGAGTCTGAGAAATAGTTTAAAGAGAAGTGTAAATGAAAC
GCATTGAGACAGAGAAAACGATGCTGCTAAGCCGAGCAGTGTGTAAGGAGAAGGCCCCACCCATGCC
ATAGGCAGGCAGTGTGGCTTCCATCCCTGACAAACCAAGCCTAATAAGTCAAATGTTCTCCTCCAAG
GTGCTTACAAGCAAGCAGCATGGGCACGGCAGGCTTAGCTAGCTTTTCTAAGATAGACCTGCCTGCAGG
AGCTGCTCCTCCCGCTGCTCCAGATGCCGGATCAGATTTTACAGTTATTCTACCTTTGTTACTGAAAAT
AAAGTAAAAGTCTTAAAGGTCCATATGCCAAATTACCTAGTCCAGAGCCAAGTATGAGTCTACGATGC
ATCGGAGGCATTCTCGTCCAGCATCAGCATGTCAGATCCTTATAAACAACCCAGTAAATGCCTGTGAGCT
GAGCCCAAAGGGGAAAGAAGAGGCAGTGGATAGAACCCTCCAGCTGCTGCTGAGACAACAAATGAGTCT
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CGTCTGAGAGCACAAGAGAGATGGTCGTGGTAAGCCAAGTCAAGGCAGCAGGCTTAGGAGCTCACTT
AGGCAATAACGTCAGTGTGAGCGGTCTGCTATGGAAGTCCCTCATAGCTGATGACAGGGGAGCCAG



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AAGGTGGACGGTACTTGTATGGCTGTGCCAAGTTGCATGAACTGCAGCCAGCAGTCAGTGTGTGTCAA
 GTCAAACCTTGGAAAGATGTGTGTGAACTCAAGTCAGCCAGTCTGCTAGCAAAGAAGCTCCTGCAACTTACA
 AATGGAAGTGAATAAATCTTACGATGTGAAACACCCATCTCCCTTACTTACGCAAACCCAGACTTCCAGA
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 AAGATGCTAGAAACTAGCCCCAAAGAAGGCCAGGAAGTACTGAAAAGCAAGATGTTAGCTTTTGAAGAAA
 TGCGAAAAGAGACTAGAGGAACAGCATGCCAGCAGTTGTCACTCCTCATAGCTGAGCAGGAGAGGGAGCA
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 AAGTGGACTCACTCCAGACTTCAAACAAGTCTGGCTTCAAACTTCTGCCCTGCAGTACAGCTTCGGCTC
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 GAAACTGCTCCGGCAAATGGATAAGATGAAAAGTCCACGAGTGGCGCTTTCAGTGGCAACACAGAAGTCC
 CTGGACAGGAAGAAGTTCATGAAAGTTGCTGAGATGGGAATGCCAAATAAGAAGTTCTGCTTAAACAAA
 ACCCCTCAGAAACAAGAGTCTTCAGCCAAACCAAGGACAGAATGCACCCGTTTATAGGCTACTTAGTAG
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 CCTAACAGAGCGCCTGTGTCAGGAGCATATGCAGGAAAAACCCAAAGAAAGCGGCCAAATGTTGCGACAA
 TT

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR211433 protein sequence
 Red=Cloning site Green=Tags(s)

MEEYEEFCEKALGRAQEASLSTGSFLPAQAESVSLIRFHGVAVLSPLLTIEKRKKIQEEKQKALDVQSRK
 QANRKKALLTRVQEILENVQVRKAPNASDFDQWATETIYSNPEVTDLNVPRVPSNSLPSPEHCTS VKLE
 KITGLLPVNEDQQTTPKRVGLPGDSEVSGSLRQCESPESRQAEDGAALRLSSASPEQETIISDVLGKEEQD
 PSCLAEVTPDPYIMSLQNLMKRSKEYVERELSSRSLRNSLKRSVNETHSDRENDAAKASDCVKEKAPPMP
 IGRHCGSAIPDKPSLNKSNVLLQGASQASSMGTAGLASF SKIDL PAGAAPPAPDAGSDFTVIPTFVTEN
 KVKSLKGPYAKLPSEPSMSPTMHRHSRSASACQILINNPVNACELSPKGKEEAVDRTAPAAAETTNES
 ETVPKSPTDLTGVCSSNVSATKITSESTREMVVGKPSQRQALGAHLGNNVTVERSAMEGPF IADDRGAQ
 KVDGTCMAVPKLHELQPSSQCVSSQTLEDVCELKSASLLAKNSCNLQMELNKSYDVKHPSPLL TQTQTSR
 QQMDTPPVFRGNEQFVDNSFEKVKRRLDLVDVSLQKENCYIITAGVAEQERDRLLERRYPKGFVHINKN
 KMLETSPKEGQELLKSKMLAFEEMRKRLEEQAQQLSLLIAEQEREQEQLQKEIEEQEKMLKEKAVTTDV
 SDLNSALEWRQRTDSALLETMLSQVDSLQTSNNSGFITSALQYSFSGSAGEAPFYLWGLTSGVTRVSGTR
 PCGRAQAKWSQVFNPEIHAKFNKITAVAKGFLTRKLMQTDKQLRQTVKDTMEFIRSFQSEAPLKRGVV
 SAQDASLQERVLQALRAALYGIHDIFFVMDAAERMSILHHDREARKEKLLRQMDKMKSPRVALSVATQKS
 LDRKKFMKVAEMGMPNKKFLLKQNPSETRVLQPNQGNAPVHRLLSRQGTPKTSVKGVVQNRQKPSQSRV
 PNRAPVSGAYAGKTQRKRPNVATI

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_182995

ORF Size: 3015 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_182995.2](#)

RefSeq Size: 5024 bp

RefSeq ORF: 3015 bp

Locus ID: 101565

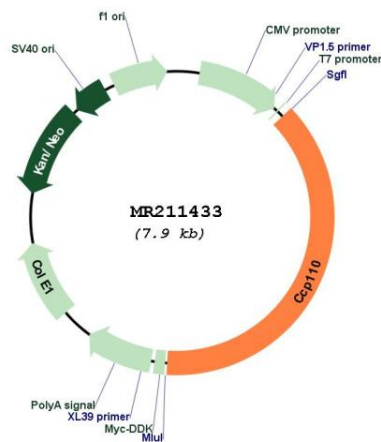
UniProt ID: [Q7TSH4](#)

Cytogenetics: 7 F2

MW: 111.1 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: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]

Product images:



Circular map for MR211433