

Product datasheet for MR211393

Cep120 (NM_178686) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cep120 (NM_178686) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cep120
Synonyms:	A230075C01; AU016693; Ccdc100
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR211393 representing NM_178686 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTCCCAAGTCCGACCAACTGCTCATCGTCGTATCCATCCTCGAAGGTCGCCATTTCCCAAACGTC
CAAAGCATCTGCTCGTGGTGAAGCAAAGTTTATGGGGAGCAGCTGGCTACTGATCCTGTCGACCATAC
TGACCAGCCAGAATTTGCTACTGAGCTAGCCTGGGAGATTGACAGGAAAGTCCTTCATCAGCACCGGTTA
CAGCGCACGCCGATCAAACCTCCAGTGCTTTGCCTTGGACCCGAGACTTCTGCCAAGGAAACCGTAGGCT
ACATTGTTTTGGACTTAAGAACAGCTCAAGAAACAAAGCAGGCTCCCAAATGGTACCAGCTGCTGAGTAA
CAAATACACCAAGTTCAAGGCCGAGGTGCAGATCAGCCTCACTTTGGAGACAGATACAAAGGCCAGGTG
GATAGTTATAAAGCAAAAGCAGCCCGCCTCGGGATGGAAAAGTTCTTGCTAGCCTGGCAGGAGTTGACC
CGAAGGACATTGTTGAGTATTGAATGAGGAAGGAGGCTACCATCAGATTGGACCAGCGGAGCACTGTAC
TGACCCCTTTATTTTGTGCGTGACGATTGCATTTGCCACCCAGTTGGAACAGTTAATTCATGTACCATG
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CAGTAGAAGGTGCTTTTACCCTTGACCCTCCAAACCGAGCCAAGCAGAAGCTAGCTCCAGTCCCTCTGGA
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TGACTTGGAACTCAGTTTTCCAGTCAACTGCATATTGAGGTACTCTACCCATTCTCGGCAGTGCAGCT



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CCTATTATGACTAACCTCCCCTAGAAAGTTCGAAAAACATGGAGGTTTTCTTCTCAGTCTTACTGTG
 CGTTTGATTTTGAACATGCCTCACCAGCTCCAAGACACCTTCCTACGGATTCTCTGCTGGTGGAGTT
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 GCCCGAGGGGCTCTGGGCTGGAAGAAGGCTTGATGACTACCTGACACGCTGATAGAGGAAAGGGACAC
 TCTGATGAGAACGGGTGTCTATAACCATGAGGACCGCATATAAGTGAAGTTCGACCGGCAGATCAGAGAG
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ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAGGTTTAA

Protein Sequence:

>MR211393 representing NM_178686
 Red=Cloning site Green=Tags(s)

MVPKSDQLLIVVSILEGRHFPKRPKHLLVVEAKFDGEQLATDPVDHTDQPEFATELAWEIDRKVLHQHRL
 QRTPIKLCQFALDPQTSAKETVGYIVLTLRQAETKQAPKQYQLLSNKYTKFKAQVQISLLETDTKAQV
 DSYKAKAAPPRDGKVLASLAGVDPKDIVAVLNEEGGYHQIGPAEHCTDPFILSVTIAFATQLEQLIPCTM
 KLPERQPEFFFYSLGNDVTNEPFDLIPNPFEPERASVIRSSVEILRVYALHLSKLIHLCCGDQSL
 GSTEIPLNGLKKGSTEINQHPVTVEGAFVLDPPNRAKQKLAPVPLDLAPTGVSVLQREGIDSQSLIE
 LKTQNGHEAEHSQKRVLTPIKEKLTGPKSPRESPAPPPPNQTPPTKDDATESEVESLQYDKDPKPTVK
 GIGSVPASLAQPEATCGASEVVTSGQKIAVPAASHHFCFVLDLRSVHDLLEL SFPVNCILRYSYPPFGSAA
 PIMTNPVVEVRKNMEVFLPQSYCAFDFATMPHQLQDTFLRIPLLVELWHKDKMSKDLLGVARIQLSNIL
 SSEKTRFLGANGEQCWRQTYSESVPIAAQGSNNRILDLSYTMLEDYGLVKMREIFVSESSQGVPAVDQ
 KPSSPPPAPCPSEIQMEPRETLEYKAALEEMWKEMQEDIFESQLKQKELAHMQALAEWKKRDRERESL
 YKKKVAEYSILEGKLQKALTELETREQLASAEELQREKELQLERERNLQELQDSVRRARDDCVYQVE
 LERLKLKQLEEDKQRLQQQLNDAGNKYKLEKEFQQFKDQNNKPEIRLQSEINLLTLEKVELERKLESA
 TKSKLHYKQWGRALKELARLKQREQESQMARLKKQEELEQMRLRYLAAEEKETVRTEQQLDIRNEL
 NRLRQQEQNYQDCKEIASGKLGSPRGSGLLEGLDDYLTRLIEERDTLMRTGVYNHEDRIISELDRQIRE
 VLTKNAS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9098_d05.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_178686

ORF Size: 2964 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_178686.4](#)

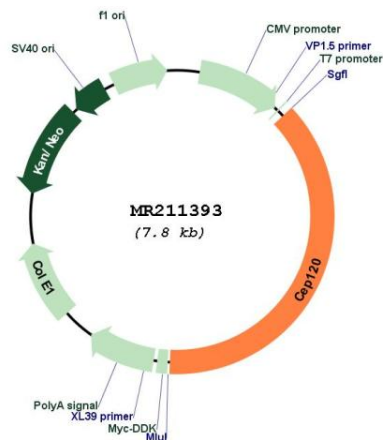
RefSeq Size: 4572 bp

RefSeq ORF: 2967 bp

Locus ID: 225523
UniProt ID: [Q7TSG1](#)
Cytogenetics: 18 D1
MW: 112.6 kDa

Gene Summary: Plays a role in the microtubule-dependent coupling of the nucleus and the centrosome. Involved in the processes that regulate centrosome-mediated interkinetic nuclear migration (INM) of neural progenitors and for proper positioning of neurons during brain development. Also implicated in the migration and selfrenewal of neural progenitors. Required for centriole duplication and maturation during mitosis and subsequent ciliogenesis. Required for the recruitment of CEP295 to the proximal end of new-born centrioles at the centriolar microtubule wall during early S phase in a PLK4-dependent manner (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR211393