

Product datasheet for **MC224893**

Cep152 (NM_001081091) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cep152 (NM_001081091) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cep152
Synonyms:	AI851464; mKIAA0912
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC224893 representing NM_001081091 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCATTGGAGTTTGGCAGTGTAGCACTGCAGACACAAAATGAAGATGAAGAATTTGACAAAGAAGACT
TTGAAAGGGAAAAAGAGTTGCAGCAGCTACTCACAGACCTCCCTCACGACATGCTGGACGATGAGCTCTC
CTCTCCTGAGCGCCACGATTCTGACTGCAGTATGGACGGCAGAGCGGCAGAACCCGATCCTTCTGAGCAT
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CAGCAGCTCTTTCAGAATGGCAAGGAGAGGGAGATGCAGCTTGAAGCTCAGATTGCAGCACTGGAGGCGC
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CTGAGTATAGAGCTCACTGAATCATGTGTGGACTTGGGCATTAATAAAGTCAATTGGAAACAATCCAAAG
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 TCTGACAGTACCTTACCCTGTGGCAGTCTGCAGTGTCTTCTTGGGGATGGGTCAAAAGGACTCAGG
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 TAATATGGTTTGTGCGAGTAGTCACACTCTAGATCTGCCCAAAGAAACCTGCATTTCCAAACAAGGGAAG
 ATGGGTGCAACTCTGGGACCCCATCTCCACAGAGCACTGATATGTTAAAGACAGATTTCAAGAGACTCA

GTGGCACAGGACCATCTTCATTGTGTCAGAAGCCTTTGATAAAGTTAACTGCTCCGATGCCAGCCAACA
GGATAGTGGCTTTGACAGCCCGCTTGAGTAA

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII

ACCN: NM_001081091

Insert Size: 5211 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_001081091.1](#), [NP_001074560.1](#)

RefSeq Size: 5768 bp

RefSeq ORF: 5211 bp

Locus ID: 99100

UniProt ID: [A2AUM9](#)

Cytogenetics: 2 F1

Gene Summary: Necessary for centrosome duplication; the function seems also to involve CEP63, CDK5RAP2 and WDR62 through a stepwise assembled complex at the centrosome that recruits CDK2 required for centriole duplication (By similarity). Acts as a molecular scaffold facilitating the interaction of PLK4 and CENPJ, 2 molecules involved in centriole formation (By similarity). Proposed to snatch PLK4 away from PLK4:CEP92 complexes in early G1 daughter centriole and to reposition PLK4 at the outer boundary of a newly forming CEP152 ring structure (By similarity). Also plays a key role in deuterosome-mediated centriole amplification in multiciliated that can generate more than 100 centrioles (PubMed:24240477). Overexpression of cep152 can drive amplification of centrioles.[UniProtKB/Swiss-Prot Function]