

Product datasheet for **MC220102**

Cep72 (NM_028959) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cep72 (NM_028959) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cep72
Synonyms:	2610029E11Rik; 4933440J22Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC220102 representing NM_028959
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGCCAGCCAGCGTTGGTTTTGTGTGAAGAGACTGTACGAGAGCGCAGCGCCTGGTCCCCACC
 GCGACCTGGCTGAACTTCGATCTTTATCTATTCCTGGAACATACCAAGAGAAGATTACTCACCTGGGAAA
 CTCTCTGATGCACTTGACAGCTCTAAAATCCTTAGACCTCTCACGTAACCTCTGGTTAGCCTTGAGGGT
 ATACAGTATCTGGTCTCCTTGGAGAGTCTCAATCTCTACTACAACGTATTTCTCATTAGCAGAAGTAT
 TTAGGCTCCACACCCTACTGGAGCTCCAGGACGTGGACTTCCGGCTTAACCCCGTTGTGAAGAATGAGTC
 TGACTACCGCCTGTTTGTGTCGACATGCTCCGAAGCTCCGACAGCTAGATGACCGTCTGTGAGAGAA
 AGTGAGCGGAAAGCTTCCAGCTTCATTTTGGCCAGAAGATTCCTGAACCTCAAAGGAGAAGCTTCTCAA
 CCACCTTAACCGTTGGAAGACCACACCCTCAGAAACAGATGTACTGAGACCTCGGCCAAAAAATGCTT
 GGTGATGGATGCTGATGATGAGGCTGTCTGAACCTTATTGCCGAGTGTGAATGGGACCTAAGCAATCCT
 CCTGGGAACATGAGCTCCAGCCAAAAGGAACATGAAGCTGACCTCCATTATGCCAAAGAGTCCAGACATC
 TGGTGGTCCCTTTGTCCATCCAGCACCAGTGTGGGGATTAGCGAGGCGAGGCCATGAGAAGAAGAAAGT
 CACCTCCAGAGGGTGTCCAGGTCATTACCCGACAGGACCAGCTCTGTGGGAACTCCCCCTACAGCATGGC
 TTGCCAGAGGCCTGCCATATGCACGTACAGCATGCCCGCATCACTTCACAGCCAGACTCTGTGGATGTTG
 AGGACTGTGCTTCATCTGCTCAGAAATCAAGTTTGTATCACAAAAACAGTAAATCCTTTGCTGTCCC
 TGAAAAGTACAGGAAGCGAAGGATGCCTGGTGGGAGATTCCAGGTGCCTTCAGACCGGAGTGTGGAGCC
 TTCTAGAGAGGGCTGACGGGCCCTCCAGCCTTGAGGACAGTCTAAGCAGACAGGATGGCTTGGAGGGCC
 AGAGTCAGGTGGCCTTGTCTCACTCTGAGGCTTTGGAGGCTGAAGAGCGGACATCTCATGGCACAAGTGA
 CCCAGAGTGTCTCCTAAACTCTGCTCGGCAGCGGTGCCTGAGCGGAGGTCCACTCTGGAAGTGGCC
 CTCTGGAGGCGCTTCTCGACCTGATAGACAGGTGCTCAAGTGGCAGTGGATCCCTGCATGGCAATGAGG
 CCTTCTTGTCTCAGGCCAAGCATGTTTTGTCTCTTCAAGAGTTCACAGCAACTCGGGACAGTTCAGC
 ACTTGAAAAGGAAGGAATTGGTTACCTATCTTTGAAAATAAGACTCTGCAAAGCCGCTTGTGAGCAA
 CAGCAACAGTATACTGCTACAGTGACCAAGATGACAGCAGAGCTCAATAATACAAAGAGGGAGCTGGACA
 CATTGAGACAACATTTGGACAAATCATTGGAAGAGAATAGCCACTTAAAGTCTCTCTGTACAATGTGAA
 AAAAGAAGTAAAGACTGCAGACACTTCACTGCACTCACTTTGCAGATCACTGGACTTCAGGCAAGTATG
 AAGCAGCTCTCTGGGAAGTTGTGGAGCTGAAGCAACACGTGGAGCACTATGACAAGATCCAGGAGCTCA
 CACAGATGCTTCAAGAGAGCCACAGCTCCCTGGTAAGCACAATGAGCATCTCTGCAGGAGCTGAGCCG
 CACACGGGCACAGCATAGAGCTGAGGTAGAGCAGATGCGCTGGAGCTTCCAGGAATTTAAGAAGACTACG
 GCCTGATCCCTCACCGTAGCTCCCGACGTGGGGCCGGCAGTCTGCTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_028959
- Insert Size:** 1941 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_028959.3](#), [NP_083235.3](#)

RefSeq Size: 3632 bp

RefSeq ORF: 1941 bp

Locus ID: 74470

UniProt ID: [Q9D3R3](#)

Cytogenetics: 13 C1

Gene Summary: Involved in the recruitment of key centrosomal proteins to the centrosome. Provides centrosomal microtubule-nucleation activity on the gamma-tubulin ring complexes (gamma-TuRCs) and has critical roles in forming a focused bipolar spindle, which is needed for proper tension generation between sister chromatids. Required for localization of KIZ, AKAP9 and gamma-tubulin ring complexes (gamma-TuRCs) (By similarity). Involved in centriole duplication. Required for CDK5RAP22, CEP152, WDR62 and CEP63 centrosomal localization and promotes the centrosomal localization of CDK2 (By similarity).[UniProtKB/Swiss-Prot Function]