

Product datasheet for **MR218976**

Cep72 (NM_028959) Mouse Tagged ORF Clone

Product data:

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



ORF Nucleotide Sequence: >MR218976 representing NM_028959
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCGCCAGGCCAGCGGTTGGTTTTGTGTGAAGAGACTGTACGAGAGCGCAGCGCCTGGGTCCCACC
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 CTCTCTGATGCACTTGACAGCTCTAAATCCTTAGACCTCTCACGTAACCTCTGGTTAGCCTTAGGGT
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR218976 representing NM_028959
 Red=Cloning site Green=Tags(s)

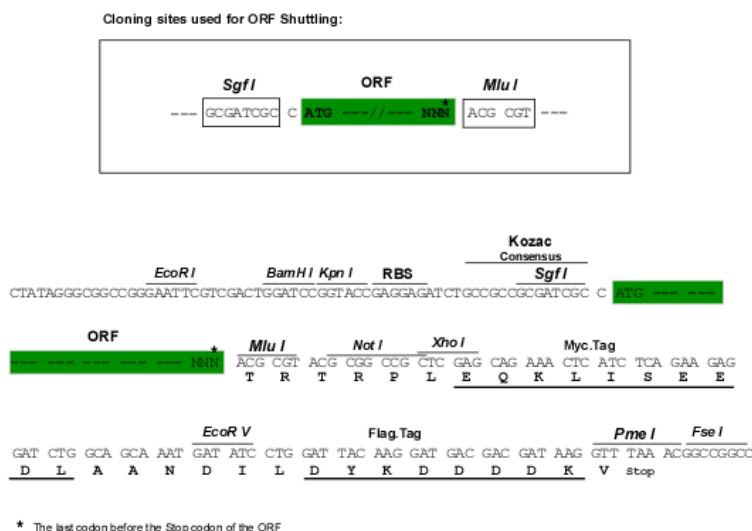
MAPGQRLVLCEETVRERSGLGPHRDLAELRSLIPGTYQEKITHLGNLSMHLTALKSLDLNRSLVSLLEG
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 SERKASQLHFAPEDSLNSKENFSTTLTVGRPHHLNRCTETSAKKCLVMDADDEAVLNLIACEWDLNPN
 PGNMSSSQKEADLHYAQESRHLLSPLSIQHQCSDSARRGHEKKVTSRGCPGHSPQDQLCGELPLQHG
 LPEACHMHVQHARITSQPDSDVDVEDCASSAQKSSLSQKTVNPLPVPEKYRKRMPGGRFQVPSDRECLS
 FLERADGPSSELSLSDQDLEGQSQVALSHSEALEAEERTSHGTSDPRLVSPKLCSAVPERRSTLEVA
 LLEALLDLIDRCSSGSGSLHGNEAFLAQAKHVLSSLQEFTATRDSSALEKEGIGYLSLENKTLQSRLEQ
 QQYATATVTKMTAELNNTKRELDLRLQHLDKSLEENSHLKSLLYNVKEVKTADTSTALTQITGLQASM
 KQLSGEVVELKQVHEHYDKIQELTQMLQESHSSLVSTNEHLLQELSRTRAQHRAEVEQMRWSFQEFKKT
 ALIPHRSSRRGGRQSC

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9079_d04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_028959

ORF Size: 1938 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:

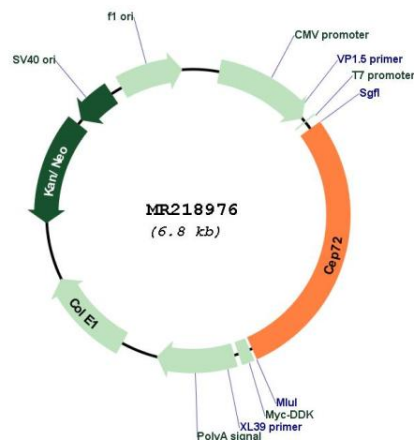
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq:	<u>NM_028959.3, NP_083235.3</u>
RefSeq Size:	3632 bp
RefSeq ORF:	1941 bp
Locus ID:	74470
UniProt ID:	<u>Q9D3R3</u>
Cytogenetics:	13 C1
MW:	72.4 kDa

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]

Product images:



Circular map for MR218976