

Product datasheet for **MG219870**

Cep68 (NM_172260) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cep68 (NM_172260) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cep68
Synonyms:	6030463E10Rik; AI481761; BC027174; Kiaa0582
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG219870 representing NM_172260
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCCTGAGTGAAGATGAGGCTGAGGCAGAAGTGTCTGTCAACACAAAGTCCCATCCTGTGGCAGGT
 GGAACCTCTGGGAAGCTGCTGCCCTCAGGGCTTGAACCAGATCAGCCCCTACATCTGGGTGTTGAGGGGG
 GCCACTGTGGAGGGCTGAAGCTGACCCTGGCTGCATCTCGGGAGTTTTCTGTACAGGGTCCATACTGCC
 AGCAAAGAACCAGTAGCAGATAGGTCTAAGCCTCCCCTCAGAGGCCCGCTTCTTCTGCCAGTGTGGCA
 CTGGAGAGGTTTTACTCTATGGGCAGCAAATGGAGGAAGACAGGCTTCTGCCTCCCAGGACCTACT
 TCCAGCTCTTCAAGTCTTTGAACTATAACTGTTTGTCTCAGGACAGGAGGCTGACAGTGAAGACTCCAG
 GCTACGCTTGATCCATCTCAGGTGTTGGGCTCAGCCAGCAACCACACCTCAGGTCTCCCTCTCCCGC
 CACAGTGAAGTCCACGGTGAAGCCAGGTGCTCCTCAGCTTCTAGCAGAAGCATCTCTGCCTCCTCGGT
 GGGCAGCAGTCTCAGGATCACCAAGAGAAGGCAGGACCTCAGAGGGCCTTTTTGCCAATGTCTCTCT
 CCCGAGTTGACTGTACCCAGGCAGCCACTCTGTGGTGGGGCAGGGCCTCCGCTCCAGGGGTACAGCAC
 AGCCTCTGACCTCTGGCAGTGATGCTACAGGCCTGGTAAAGACACCTCTCCTTTCAGGCAGAATACTG
 GCCTGTGCGCTGCCAAATTCTCTGCCTCTTCCCTAACCGCCACTCCGCACTCTGGGACCCAAATAAA
 GAGTATGAAGATCTGCTTGACTACACTTACCCACTGAGGCCTGGGCTCAGCTCCCAAAGCAACCTGAAA
 GTCATGTCCTGACTGAGCCTGTTCTGCAGGACTCAGGTGTAGATCTGGACAGTTTGTCTGTCTCCCAGC
 AAGTACTCTAAAGTCAACCACTAATGTCTCCACAATTGCTCATCAGCAGAAGTGCTACTCTGCCATTT
 TCTGGAGCCAGAGAGTCTGTCTTAAGCGCTGGCCCTTGGGAATATTCCAGAAACAGGGTGGCACAAGT
 TGTCTCCTGGAACCAGTTGCATCAACCCCTAGAGCCCAGGCACTGAAGATGCTTCTTGGGAGAACAG
 AGAGGCAGCCCTGAGGGGCACAGCGGAGGACTGCCTCCCTATAGGTGAGGACCTCCGAATGGGCTCTCCC
 CAGCTGAAGACGAAGGAGAAAGAGCCACCTTTCCAGACAGAAGAGAGGCAGGCAGCATGTTAGCTGCC
 CGGCTGTGTGACGCTGGATGGCCATCAGAAGAGGAGGTGGGAAGTGTGAGGAGTACCTTGTCTGCC
 CACCAGGCTGACTCAGGTCTCTAGTTTGGTGTCTACTCAGGTGCCAGGCCCTCTTTGTGAACCTACAC
 ACTGGGGCTGCTGAGGAACACAGTTCACTACAAGTCTCAGACAGTGACAAGCCAGCCTCCCCACATTGG
 ACTCCAGCCACAGGAAGCATCCTTCTGAACTTCTTTCAAGGGCCTGTGGCCAGAACCCTGCTTCAG
 GCATTCTATCCAGCCCCAGGACTCTAGAGGCAAAAGTAGTCTGATGAGTAACCAGACCCTCGGGTCTCT
 TCAAAACCACTGAAAACCTCAGCCCGCTCAAAGCCATGACGGACAGGGCTGTTCTCCGAGCTAGTAG
 CTGGAGAGACTTCCCAGGACGACAGATGAGCAGGAGAAAGCTTCTCTAGTGCAGTGTGTGCAGACATT
 TTGCTGTCTGGCTGGAAGAGCTGATCTGCTGTTGTATAATGTCACAGATGTTGCTGACCTCAGTGCTCCA
 CCCAGGACCAGCCTTACAGGTCTCAAGTCTTCTCTGCAGCTTTACAGGCAATTTAAGAAAGATGTAGACG
 AACATCAGTCCCTGACAGAGAGCGTCTTGGAGAAGGGAGAGATTCTTCTCAGTGCTGTTGGATAACAC
 CCCAGTTTTAAAGGATGTCCTTGAGAGGATTGCAAAGCAGTCTGGTGAGCTGGAGAGCCGTGCAGATCAT
 CTTTATGACTCTATCTTAGCCTTTGGACATGTTGGCTGGCTGCACCCTCATCCCTGACAAACAGGCCAA
 CAGCAGCAGAACCACACATGAAGGCTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG219870 representing NM_172260
 Red=Cloning site Green=Tags(s)

MALSEDEAEAEVSVNTKVPSCGRWNSGKLLPSGLEPDQPLHLGVEGGPLWRAEADPGCISGVFLSRVHTA
 SKEPVADRSKPPLRGPLPSASVGTGEVLHSMGSQMEEDRLPASQDLLPALQVFGTITVCSGQEADEDFQ
 ATLDPSQVLGLSQPHTSGLPLPPQWKSTVSPGAPQLSSRSISASVGSLSQDHQEKAGPQRASFANVSS
 PELTVPQAAHSVVGAGPPLQGSAQPLTSGSDATGLGKRHLSFQAEYWACALPNSLPPSPNRHSALWDPNK
 EYEDLLDYTYPLRPGPQLPKQPESHVLTPEVLQDSGVDLDSLVSVPASTLKSPTNVSHNCSSAEVPTLPP
 SGARESCLEKRWPLGIFQKQGGTSLSSWNQLASTPRAPGTEDASWENREAAALRGTAEDECLPIGEDLRMGSP
 QLKTKKEPPFPRQKRGRQHVSCPACVTPGWPSEEEVGSDEEYLALPRTLQVSSLVSYSGARPSFVNLH
 TGAAEEHSSLQVSDSKPASPTLDSSHRKHPSGTSFQGPVQGNPCFRHSIQPQDSRGKSSLSMNQTLGVS
 SKPLKTQPASKAMTDRRLFSELVAGETLPRTTDEQEKASLVQCVQTFCCRLEELICWLYNVTDVADLSAP
 PRTSLTGLKSSLQLYRQFKKDVDEHQSLTESVLEKGEILLQCLLDNTPVLKDVLERIAKQSGELESRADH
 LYDSILASLDMLAGCTLIPDNRPTAAEHPHEGL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_172260

ORF Size: 2199 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_172260.3](#), [NP_758464.2](#)

RefSeq Size: 4810 bp

RefSeq ORF: 2202 bp

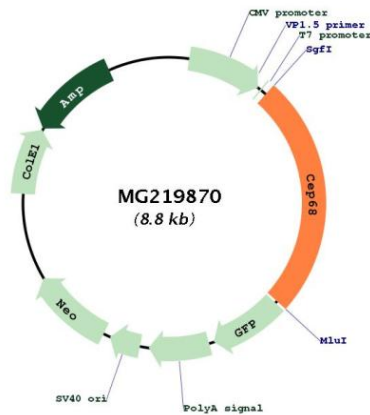
Locus ID: 216543

UniProt ID: [Q8C0D9](#)

Cytogenetics: 11 12.92 cM

Gene Summary: Involved in maintenance of centrosome cohesion, probably as part of a linker structure which prevents centrosome splitting. Required for localization of CDK5RAP2 to the centrosome during interphase.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG219870