

## Product datasheet for **RC230339**

### NCAPH2 (NM\_001185011) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NCAPH2 (NM_001185011) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NCAPH2
Synonyms:	CAPH2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RC230339 representing NM\_001185011  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGGACGTGGAGGCGCGCTTCGCCACCTCTTGCAGCCCATCCGCGACCTCACCAAGAAGTGGGAGG  
 TGGACGTGGCGGCCAGCTGGGCGAGTATCTGGAGGAGCTGGATCAGATCTGCATTTCTTTTACGAAGG  
 CAAGACCACAATGAACCTCATTGAGGCAGCGTTGTTGATCCAGGGCTCTGCCTGCGTCTACAGTAAGAAG  
 GTGGAATACCTCTACTACTCGTCTACCAGGCCCTTGATTTTATCTCTGAAAAGAGGCGGGCCAAGCAGC  
 TCTCTTGGTGCAGGAGGACAGGGCCAATGGGGTTGCCAGCTCCGGGTCCCCAGGAGGAGAGAAATGA  
 GTTCTGTGCTGGATGACTTCCCTGACTCCCGGACTAACGTGGATCTCAAGAATGATCAGACGCCAGT  
 GAGGTCTCATCATCCCCCTCTGCCATGGCCCTGGTGGCCCTGATGAAATGGAGAAGAACAACAATC  
 CCCTGTACAGCCGTGAGGTGAGGTCTGGCCAGCCGGAAGGATTCAGGATGAACACGTGCGTTCCCCA  
 CCCCAGAGGGGCTTCATGTTGGAGCCAGAGGGCATGTCCCCATGGAACAGCGGGCGTTTCCCCATG  
 CCAGGGACCCAGAAGGACACCGGAGGACTGAGGAGCAGCCAATGGAAGTTTCCGTGTGCAGGAGCCCTG  
 TCCCAGCACTCGCTTCTCCAGGAGCCAGGCCCTCTCCAGAAGGCCCGATGCCCTGGGTGGGGGCGA  
 GGACGAGGATGCAGAGGAGGACAGTAGAGCTTCTGAGGCCTCGGCCCCCAAGGCCGCTCTGGAGCCCAAG  
 GAGTCCAGGAGCCCGCAGCAGAGTGTGCCCTGCCAGGAGGTACATGCTGCGGGAGCGGGAGGGGGCC  
 CAGAGCCTGCATCCTGCGTGAAGGAGACTCCAGACCCCTGGCAGAGCCTGGACCCCTTTGACTCCTTGA  
 GTCTAAGCCCTTCAAGAAAGGTAGGCCTTACTCTGTGCCCCCTGTGTGGAGGAGCTCTGGACAGAAG  
 CGAAGAGGAAGGGCGCTGCCAAGCTGCAGGACTTCCACCAGTGGTACCTGGTGCCTATGCAGACCATG  
 CCGACAGCAGGCGGCTTCGGCGAAAGGGTCCGCTCTTTCAGACATGGAGTCTGTACTGGACACACGT  
 GAAGGAGCAGTTGGAACCTCTCCGGAAGCTGCAGAGGAGGGAGGTGGCTGAGCAGTGGCTGCGGCCTGCA  
 GAGGAGGACCACCTGGAGGATTCCTGGAAGACCTGGGGCAGCAGCAGATGACTTTCTAGAGCCTGAGG  
 AGTACATGGAGCCCGAGGGAGCAGACCCAGGGAAGCCGCTGACCTTGACGCAGTGCCGATGTCCCTGAG  
 CTACGAGGAGCTGGTTCGAAGGAATGTGGAGCTTTCATCGCCACCTCCCAGAAGTTTGTCCAGGAGACA  
 GAGCTGAGCCAGCGCATCAGGGACTGGGAGGACACAGTGCAGCCTCTGCTCCAGGAGCAGGAGCAGCATG  
 TGCCCTTTGACATCCACACCTATGGGGACCAGCTGGTCTACGGTTCCCCAGCTCAATGAGTGGTGTCC  
 CTTTGGGAGCTGGTGGCTGGCCAGCCGCTTCGAGGTGTGCTTCCATGCTGGCCTCCCTGCAGCTG  
 GCCAATGACTACACAGTGGAGATAACCCAGCAGCCGGGCTGGAGATGGCCGTGGACACCATGTCCCTGA  
 GACTGCTCAGCACAGCAGGAGCGCAACAAGCGCTTCCAGACCTACGCTGCCCCCTCCATGGCCAGCCC

**ACGCGT**ACGCGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC230339 representing NM\_001185011  
 Red=Cloning site Green=Tags(s)

MEDVEARFAHLLQPIRDLTKNWEVDVAAQLGEYLEELDQICISFDEGKTTMNFIEAALLIQGSACVYSKK  
 VEYLVSLLVYQALDFISGKRRAKQLSSVQEDRANGVASSGVPQEAENEFLSLDDFPDSRTNVDLKNDQTPS  
 EVLIIPLLPMALVAPDEMEKNNNPLYSRQGEVLSRKDFRMNTCVPHPRGAFMLEPEGMSPEPAGVSPM  
 PGTQKDTGRTEEQPMESVCRSPVPALGFSEQPGPSPEGPMPLGGGEDEDAEEAVELPEASAPKAALEPK  
 ESRSPQQAALPRRYMLREREGAPEPASCVKETPDWPQSLDPFDSLESKPFKGRPVSVPPVVEALGQK  
 RKRKGAALKQDFHQWYLAAYADHDSRRLRRKGPSFADMEVLWYTHVKEQLETLRKLQRREVAEQWLRPA  
 EEDHLEDLSDLAADDLEPEEYMEPEGADPREAADLDAVPMSLSYEELVRRNVELFIATSQKVFQET  
 ELSQLIRDWEDTVQPLLQEQEQHVFPDIHTYGDQLVSRFPQLNEWCPFAELVAGQPAFEVCRSMLASLQL  
 ANDYTVETIQPGLEMAVDTMSLRLLTHQRAHKRFQTYAAPSMAQP

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

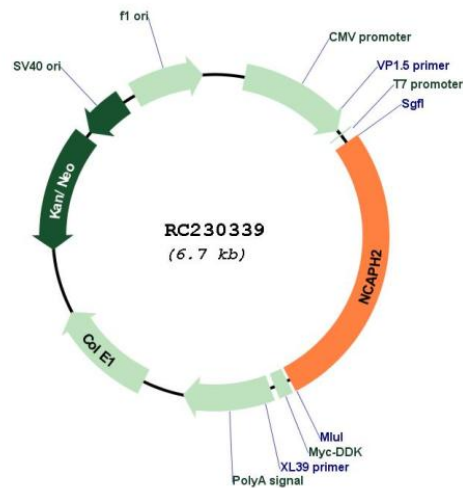
**Restriction Sites:**

SgfI-MluI

## Cloning Scheme:



## Plasmid Map:



ACCN: NM\_001185011

ORF Size: 1818 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_001185011.2](#)

**RefSeq Size:** 3348 bp

**RefSeq ORF:** 1821 bp

**Locus ID:** 29781

**UniProt ID:** [Q6IBW4](#)

**Cytogenetics:** 22q13.33

**MW:** 68.3 kDa

**Gene Summary:** This gene encodes one of the non-SMC subunits of the condensin II complex. This complex plays an essential role in mitotic chromosome assembly. Alternate splicing of this gene results in multiple transcript variants.[provided by RefSeq, May 2010]