

## Product datasheet for **RG230339**

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

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NCAPH2 (NM_001185011) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NCAPH2
Synonyms:	CAPH2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG230339 representing NM\_001185011  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGAGGACGTGGAGGCGCGCTTCGCCACCTCTTGCAGCCCATCCGCGACCTCACCAAGAAGTGGGAGG  
 TGGACGTGGCGGCCAGCTGGGCGAGTATCTGGAGGAGCTGGATCAGATCTGCATTTCTTTTACGAAGG  
 CAAGACCACAATGAACCTCATTGAGGCAGCGTTGTTGATCCAGGGCTCTGCCTGCGTCTACAGTAAGAAG  
 GTGGAATACCTCTACTACTCGTCTACCAGGCCCTTGATTTTCTCTGAAAAGAGGCGGGCCAAGCAGC  
 TCTCTTGGTGCAGGAGGACAGGGCCAATGGGGTTGCCAGCTCCGGGTCCCCAGGAGGAGAGAAATGA  
 GTTCTGTGCTGGATGACTTCCCTGACTCCCGGACTAACGTGGATCTCAAGAATGATCAGACGCCAGT  
 GAGGTCTCATCATCCCCCTCTGCCATGGCCCTGGTGGCCCTGATGAAATGGAGAAGAACAACAATC  
 CCCTGTACAGCCGTGAGGTGAGGTCTGGCCAGCCGGAAGGATTCAGGATGAACACGTGCGTTCCCCA  
 CCCCAGAGGGGCTTTCATGTTGGAGCCAGAGGGCATGTCCCCATGGAACAGCGGGCGTTTCCCCATG  
 CCAGGGACCCAGAAGGACACCGGAGGACTGAGGAGCAGCCAATGGAAGTTTCCGTGTGCAGGAGCCCTG  
 TCCCAGCACTCGCTTCTCCAGGAGCCAGGCCCTCTCCAGAAGGCCCGATGCCCTGGGTGGGGGCGA  
 GGACGAGGATGCAGAGGAGGCAGTAGAGCTTCTGAGGCCTCGGCCCCCAAGGCCGCTCTGGAGCCCAAG  
 GAGTCCAGGAGCCCGCAGCAGAGTGTGCCCTGCCAGGAGGTACATGCTGCGGGAGCGGGAGGGGGCCC  
 CAGAGCCTGCATCCTGCGTGAAGGAGACTCCAGACCCCTGGCAGAGCCTGGACCCCTTTGACTCCTTGA  
 GTCTAAGCCCTTCAAGAAAGGTAGGCCTTACTCTGTGCCCCCTGTGTGGAGGAGCTCTGGACAGAAG  
 CGCAAGAGGAAGGGCGCTGCCAAGCTGCAGGACTTCCACCAGTGGTACCTGGCTGCATGCAGACCATG  
 CCGACAGCAGGGCGCTTCGGCGAAAGGGTCCGCTCTTTCAGACATGGAGGTCTGTGACACACAGT  
 GAAGGAGCAGTTGGAACTCTCCGGAAGCTGCAGAGGAGGGAGGTGGCTGAGCAGTGGCTGCGGCCCTGCA  
 GAGGAGGACCACCTGGAGGATTCCTGGAAGACCTGGGGCAGCAGCAGATGACTTTCTAGAGCCTGAGG  
 AGTACATGGAGCCCGAGGGAGCAGACCCAGGGAAGCCGCTGACCTTGACGCAGTGCCGATGTCCCTGAG  
 CTACGAGGAGCTGGTTCGAAGGAATGTGGAGCTTTCATCGCCACCTCCCAGAAGTTTGTCCAGGAGACA  
 GAGCTGAGCCAGCGCATCAGGGACTGGGAGGACACAGTGCAGCCTCTGCTCCAGGAGCAGGAGCAGCATG  
 TGCCCTTTGACATCCACACCTATGGGGACCAGCTGGTCTCACGGTTCCCCAGCTCAATGAGTGGTGTCC  
 CTTTGGGAGCTGGTGGCTGGCCAGCCGCTTCGAGGTGTGCTGTTCCATGCTGGCCTCCCTGCAGCTG  
 GCCAATGACTACACAGTGGAGATAACCCAGCAGCCGGGCTGGAGATGGCCGTGGACACCATGTCCCTGA  
 GACTGCTCAGCACAGCAGGAGCGCAACAAGCGCTTCCAGACCTACGCTGCCCCCTCCATGGCCAGCCC

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG230339 representing NM\_001185011  
 Red=Cloning site Green=Tags(s)

MEDVEARFAHLLQPIRDLTKNWEVDVAAQLGEYLEELDQICISFDEGKTTMNFIEAALLIQGSACVYSKK  
 VEYLYSLVYQALDFISGKRRAKQLSSVQEDRANGVASSGVPQEAENEFLSLDDFPDSRTNVLDKNDQTPS  
 EVLIIPLLPALVAPDEMEKNNNPLYSRQGEVLSRKDFRMNTCVPHPRGAFMLEPEGMSPMEPAGVSPM  
 PGTQKDTGRTEEQPMESVCRSPVPALGFSQEPGPSPEGPMPLGGGEDEDAEEAVELPEASAPKAALPK  
 ESRSPQQAALPRRYMLREREGAPEPASCVKETPDPWQSLDPFDSLESKPFKGRPYSPVPCVEEALGQK  
 RKRKGAALKQDFHQWYLAAYADHDSRRLRRKGPSFADMEVLYWTHVKEQLETLRKLQRREVAEQWLRPA  
 EEDHLEDLEDLGAADDLEPEEYMEPEGADPREAADLDAVPMSLSYEELVRRNVELFIATSQKVFQET  
 ELSQRIRDWEDTVQPLLQEQQHVPFDIHTYGDQLVSRFPQLNEWCPFAELVAGQPAFEVCRSMLASLQL  
 ANDYTVETIQPGLEMAVDTMSLRLLTHQRAHKRFQTYAAPSMAQP

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI



<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
<b>Components:</b>	<p>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).</p>
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<p><a href="#">NM_001185011.2</a></p>
<b>RefSeq Size:</b>	<p>3348 bp</p>
<b>RefSeq ORF:</b>	<p>1821 bp</p>
<b>Locus ID:</b>	<p>29781</p>
<b>UniProt ID:</b>	<p><a href="#">Q6IBW4</a></p>
<b>Cytogenetics:</b>	<p>22q13.33</p>
<b>Gene Summary:</b>	<p>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]</p>