

## Product datasheet for **RG203573**

### NCAPH2 (NM\_152299) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NCAPH2 (NM_152299) 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:**

>RG203573 representing NM\_152299  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAACCTCATTGAGGCAGCGTTGTTGATCCAGGCTCTGCCTGCGTCTACAGTAAGAAGGTGGAATACC  
 TCTACTACTCGTCTACCAGGCCCTTGATTTTCATCTCTGAAAGAGGCGGCCAAGCAGCTCTCTCGGT  
 GCAGGAGGACAGGGCCAATGGGGTTGCCAGCTCCGGGGTCCCCAGGAGGCAGAGAAATGAGTTCTGTCG  
 CTGGATGACTTCCCTGACTCCCGGACTAACGTGGATCTCAAGAATGATCAGACGCCAGTGAGGTCTCA  
 TCATCCCCCTCTGCCATGGCCCTGGTGGCCCTGATGAAATGGAGAAGAACAACATCCCCTGTACAG  
 CCGTCAGGGTGAAGTCTGGCCAGCCGGAAGGATTTAGGATGAACACGTGCGTTCCCCACCCAGAGGG  
 GCCTTCATGTTGGAGCCAGAGGGCATGTCCCCATGGAACCAGCGGGCGTTTCCCCATGCCAGGGACCC  
 AGAAGGACACCGGAGGACTGAGGAGCAGCCAATGGAAGTTTCCGTGTGCAGGAGCCCTGTCCAGCACT  
 CGGCTTCTCCAGGAGCCAGGCCCTCTCCAGAAGGCCCGATGCCCTGGGTGGGGGCGAGGACGAGGAT  
 GCAGAGGAGGCAGTAGAGCTTCTGAGGCTCGGCCCCCAAGGCCGCTCTGGAGCCCAAGGAGTTCAGGA  
 GCCCGCAGCAGAGTGCTGCCCTGCCAGGAGGTACATGCTGCGGGAGCGGGAGGGGGCCCAAGACCTGC  
 ATCCTGCGTGAAGGAGACTCCAGACCCCTGGCAGAGCCTGGACCCCTTTGACTCCTTGGAGTCTAAGCCC  
 TTCAAGAAAGGTAGGCCCTTACTCTGTGCCCCCTGTGTGGAGGAGGCTCTGGGACAGAAGCGCAAGAGGA  
 AGGGCGCTGCCAAGCTGCAGGACTTCCACCAGTGGTACCTGGCTGCCTATGCAGACCATGCCAGCAGCAG  
 GCGGCTTCGGCGAAAGGGTCCGTCTTTGCAGACATGGAGTCTGTACTGGACACAGTGAAGGAGCAG  
 TTGAAACTCTCCGGAAGCTGCAGAGGAGGGAGGTGGCTGAGCAGTGGCTGCGGCTGCAGAGGAGGACC  
 ACCTGGAGGATCCCTGGAAGACTGGGGCAGCAGCAGATGACTTCTAGAGCCTGAGGATACATGGA  
 GCCCGAGGGAGCAGACCCAGGGAAGCCGCTGACCTTGACGCAGTGCCGATGTCCCTGAGCTACGAGGAG  
 CTGGTTCGAAGGAATGTGGAGCTTTCATCGCCACCTCCAGAAGTTTGTCCAGGAGACAGAGCTGAGCC  
 AGCGCATCAGGGACTGGGAGGACACAGTGCAGCCTCTGCTCCAGGAGCAGGAGCAGCATGTGCCCTTGA  
 CATCCACACCTATGGGGACCAGCTGGTCTCACGGTTCGCCAGCTCAATGAGTGGTGTCCCTTTCGGGAG  
 CTGGTGGCTGGCCAGCCGGCCTTCGAGGTGTGTCGTTCCATGCTGGCCTCCCTGCAGCTGGCCAATGACT  
 ACACAGTGGAGATAACCCAGCAGCCGGGCTGGAGATGGCCGTGGACACCATGTCCCTGAGACTGCTCAC  
 GCACCAGCGAGCGACAAGCGCTTCCAGACCTACGCTGCCCCCTCCATGGCCAGCCC

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG203573 representing NM\_152299  
 Red=Cloning site Green=Tags(s)

MNFIEAALLIQGSACVYSKVEYL YSLVYQALDFISGKRRAKQLSSVQEDRANGVASSGVPQEAENEFLS  
 LDDFPDSRTNVDLKNQTPSEVLIIPLLPMALVAPDEMEKNNNPLYSRQGEVLASRKDFRMNTCVPHPRG  
 AFMLEPEGMSPMEPAGVSPMPGTQKDTGRTEEQPMESVCRSPVPALGFSEQEPGSPPEGPMPLGGGEDED  
 AEEAVELPEASAPKAALPEKFRSPQQAALPRRYMLREREGAPEPASCVKETPDPWQSLDPFDSLESKP  
 FKKGRPYVPPCVEEALGQKRKRKGAAKLQDFHQWYLAAYADHADSRRLRRKGPSFADMEVL YWTHVKEQ  
 LETLRKLQRREVAEQWLRPAEEDHLEDLGAADDLFEPEEYMEPEGADPREAADLDAVPMSLSYEE  
 LVRNVELFIATSQKQFVQETELSQIRIDWEDTVQPLLQEQEQHVPFDIHTYGDQLVSRFPQLNEWCPFAE  
 LVAGQPAFEVCRSMLASLQLANDYTVEITQQPGLMAVDTMSLRLLTHQRAHKRFQTYAAPSMAQP

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_152299

ORF Size: 1668 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.

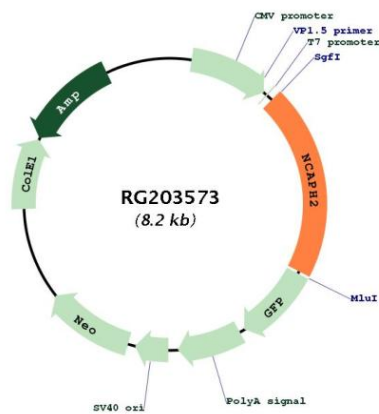
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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\\_152299.2, NP\\_689512.2](#)  
**RefSeq Size:** 2070 bp  
**RefSeq ORF:** 1818 bp  
**Locus ID:** 29781  
**UniProt ID:** [Q6IBW4](#)  
**Cytogenetics:** 22q13.33

**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]

### Product images:



Circular map for RG203573