

## Product datasheet for **SC318040**

### NCAPH2 (NM\_152299) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NCAPH2 (NM_152299) Human Untagged Clone
Tag:	Tag Free
Symbol:	NCAPH2
Synonyms:	CAPH2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >SC318040 representing NM\_152299.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGAGGACGTGGAGGCGCGCTTCGCCACCTCTTGCAGCCCATCCGCGACCTACCAAGAAGTGGGAG
GTGGACGTGGCGGCCAGCTGGGCGAGTATCTGGAGGAGCTGGATCAGATCTGCATTTCTTTGACGAA
GGCAAGACCACAATGAACCTTATTGAGGCAGCGTTGTTGATCCAGGGCTCTGCCTGCGTCTACAGTAAG
AAGGTGGAATACCTCTACTCACTCGTCTACCAGGCCCTTGATTTTCATCTCTGAAAGAGGCGGGCAAG
CAGCTCTCTTCGGTGCAGGAGGACAGGGCCAATGGGGTTGCCAGCTCCGGGGTCCCCAGGAGGCAGAG
AATGAGTTCCTGTCGCTGGATGACTTCCCTGACTCCCGGACTAACGTGGATCTCAAGAATGATCAGACG
CCCAGTGAGGTCCTCATCATCCCCTCTGCCATGGCCCTGGTGGCCCTGATGAAATGGAGAAGAAC
AACAAATCCCCTGTACAGCCGTAGGGTGGGTCTGGCCAGCCGGAAGGATTTCCAGGATGAACACGTGC
GTTCCCCACCCAGAGGGGCTTCATGTTGGAGCCAGAGGGCATGTCCCCATGGAACCAGCGGGCGTT
TCCCCATGCCAGGGACCCAGAAGGACACCGGGAGGACTGAGGAGCAGCCAATGGAAGTTTCCGTGTGC
AGGAGCCCTGTCCAGCACTCGGCTTCTCCAGGAGCCAGGCCCTCTCCAGAAGGCCCGATGCCCTG
GGTGGGGGCGAGGACGAGGATGCAGAGGAGGCAGTAGAGCTTCTGAGGCCCTCGGCCCCCAAGGCCGCT
CTGGAGCCCAAGGAGTCCAGGAGCCCGCAGCAGAGTGCTGCCCTGCCAGGAGGTACATGCTGCGGGAG
CGGGAGGGGGCCCGAGAGCTGCATCCTGCGTGAAGGAGACTCCAGACCCTGGCAGAGCCTGGACCCC
TTTGACTCCTTGGAGTCTAAGCCCTTCAAGAAAGGTAGGCCTTACTCTGTGCCCCCTGTGTGGAGGAG
GCTCTGGACAGAAGCGCAAGAGGAAGGGCGCTGCCAAGCTGCAGGACTTCCACCAAGTGGTACCTGGCT
GCCTATGCAGACCATGCCGACAGCAGGCGGCTTCGGCGAAAGGGTCCGTCTTTGCAGACATGGAGGTC
CTGTACTGGACACACGTGAAGGAGCAGTTGAAACTCTCCGGAAGCTGCAGAGGAGGGAGGTGGCTGAG
CAGTGGCTGCGGCCTGCAGAGGAGGACCACCTGGAGGATTCCCTGGAAGACCTGGGGGCAGCAGATGAC
TTTCTAGAGCCTGAGGAGTACATGGAGCCCGAGGAGCAGACCCAGGGAAGCCGCTGACCTTGACGCA
GTGCCGATGTCCCTGAGCTACGAGGAGCTGTTTGAAGGAATGTGGAGCTTTCATCGCCACCTCCCAG
AAGTTTGTCCAGGAGACAGAGCTGAGCCAGCGCATCAGGGACTGGGAGGACACAGTGCAGCCTCTGCTC
CAGGAGCAGGAGCAGCATGTGCCCTTTGACATCCACACCTATGGGGACCAGCTGGTCTCACGTTCCCC
CAGCTCAATGAGTGGTGTCCCTTTGCGGAGCTGGTGGCTGGCCAGCCGGCCTTCGAGGTGTGTGTTCC
ATGCTGGCCTCCCTGCAGCTGGCCAATGACTACACAGTGGAGATAACCCAGCAGCCCGGGCTGGAGATG
GCCGTGGACACCATGTCCCTGAGACTGCTACGCACCAGCGAGCGCACAAAGCGCTTCCAGACCTACGCT
GCCCCCTCCATGGCCAGCCCTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGGC
  
```

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_152299  
**Insert 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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_152299.3](#)

**RefSeq Size:** 3345 bp

**RefSeq ORF:** 1818 bp

**Locus ID:** 29781

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

**Cytogenetics:** 22q13.33

**MW:** 68.2 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]  
 Transcript Variant: This variant (2) differs in the 3' UTR and coding region, compared to variant 1. The resulting protein (isoform 2) has a distinct C-terminus and is longer than isoform 1.  
 Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.