

## Product datasheet for **SC324455**

### 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-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_152299.1  
 AACTAGTGGCGGGCTGAGGACGCCGTACCCCTCGGAAGGCAGCCCTGCGGTCCCTTTGCC  
 GCCCGTTCCCTCCCGACATGGAGGACGTGGAGGCGCGCTTCGCCACCTCTTGACAGCC  
 ATCCGCGACCTCACCAAGAACTGGGAGGTGGACGTGGCGGCCAGCTGGGCGAGTATCTG  
 GAGGAGCTGGATCAGATCTGCATTTCTTTGACGAAGGCAAGACCACAATGAACTTCATT  
 GAGGCAGCGTTGTTGATCCAGGGCTCTGCCTGCGTCTACAGTAAGAAGGTGGAATACCTC  
 TACTCACTCGTCTACCAGGCCCTTGATTTCATCTCTGGAAGAGGCGGGCCAAGCAGCTC  
 TCTTCGGTGCAGGAGCACAGGGCAATGGGGTTGCCAGCTCCGGGTCCCCAGGAGGCA  
 GAGAATGAGTTCCTGTGCTGGATGACTTCCCTGACTCCCGGACTAACGTGGATCTCAAG  
 AATGATCAGACGCCAGTGAGGTCCTCATCATCCCCCTCTGCCATGGCCCTGGTGCC  
 CCTGATGAAATGGAGAAGAACAACAATCCCCTGTACAGCCGTCAGGGTGAGGTCCTGGCC  
 AGCCGGAAGGATTTGAGGATGAACACGTGCGTTCCCCACCCAGAGGGGCCTTCATGTTG  
 GAGCCAGAGGGCATGTCCCCATGGAACCAGCGGGCGTTTCCCCATGCCAGGGACCCAG  
 AAGGACACCGGGAGGACTGAGGAGCAGCCAATGGAAGTTTCCGTGTGCAGGAGCCCTGTC  
 CCAGCACTCGGCTTCTCCAGGAGCCAGGCCCTCTCCAGAAGGCCCGATGCCCCGGGT  
 GGGGGCAGGACGAGGATGCAGAGGAGGAGTAGAGCTTCTGAGGCCTCGGCCCAAG  
 GCCGCTCTGGAGCCAAGGAGTTCAGGAGCCCGCAGCAGAGTGCTGCCCTGCCAGGAGG  
 TACATGCTGCGGGAGCGGGAGGGGGCCCCAGAGCTGCATCCTGCGTGAAGGAGACTCCA  
 GACCCCTGGCAGAGCCTGGACCCCTTTGACTCCTTGAGTCTAAGCCCTCAAGAAAGGT  
 AGGCCTTACTCTGTGCCCCCTGTGTGGAGGAGGCTCTGGGACAGAAGCGCAAGAGGAAG  
 GGCCTGCCAAGTGCAGGACTTCCACCAGTGGTACCTGGCTGCCTATGCAGACCATGCC  
 GACAGCAGGCGGCTTCGGCGAAAGGTCGTCCTTTGCAGACATGGAGGTCTGTACTGG  
 ACACACGTGAAGGAGCAGTTGAAACTTCCGGAAGCTGCAGAGGAGGGAGGTGGCTGAG  
 CAGTGGCTGCGGCCTGCAGAGGAGGACCACCTGGAGATTCCCTGGAAGACCTGGGGCA  
 GCAGCAGATGACTTTCTAGAGCCTGAGGAGTACATGGAGCCGAGGGAGCAGACCCAGG  
 GAAGCCGCTGACCTTGACGCAGTGCCGATGTCCCTGAGCTACGAGGAGCTGGTTCGAAGG  
 AATGTGGAGCTTTCATCGCCACCTCCCAGAAGTTGTCCAGGAGACAGAGCTGAGCCAG  
 CGCATCAGGGACTGGGAGGACACAGTGCAGCCTCTGCTCCAGGAGCAGGAGCAGCATGTG  
 CCCTTTGACATCCACACCTATGGGGACCAGCTGGTCTCACGGTCCCCCAGCTCAATGAG  
 TGGTGTCCCTTTGCGGAGCTGGTGGCTGGCCAGCCGGCTTCGAGGTGTGTGTTCCATG  
 CTGGCCTCCCTGCAGCTGGCCAATGACTACACAGTGGAGATAACCCAGCAGCCCGGGCTG  
 GAGATGGCCGTGGACACCATGTCCCTGAGACTGCTCACGCACCAGCGAGCGCACAAAGCGC  
 TTCCAGACCTACGCTGCCCCCTCCATGGCCAGCCCTGAGTGGGAGCACCGAGGAGGG  
 GTGGGGGAATGTGTAAGTACTGAGGAGCCGTGTGTCTGCTCCTGGCTGGCCCGCCTAATAAAG  
 CAGTGTGCCATCTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire  
**ACCN:** NM\_152299

**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\\_152299.1](#), [NP\\_689512.1](#)

**RefSeq Size:** 2020 bp

**RefSeq ORF:** 1668 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]  
 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.