

Product datasheet for **SC100565**

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: >NCBI ORF sequence for NM_152299, the custom clone sequence may differ by one or more nucleotides

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ATGGAGGACGTGGAGGCGCGCTTCGCCACCTCTTGCAGCCCATCCGCGACCTACCAAGAAGTGGGAGG
TGGACGTGGCGGCCAGCTGGGCGAGTATCTGGAGGAGCTGGATCAGATCTGCATTTCTTTTACGAAGG
CAAGACCACAATGAACTTCATTGAGGCAGCGTTGTTGATCCAGGGCTCTGCCTGCGTCTACAGTAAGAAG
GTGAATACCTCTACTCACTCGTCTACCAGGCCCTTGATTTTCATCTCTGAAAGAGGCGGGCCAAGCAGC
TCTCTTCGGTGCAGGAGGACAGGGCCAATGGGGTTGCCAGCTCCGGGGTCCCCCAGGAGGCAGAGATGA
GTTCTGTGCTGGATGACTTCCCTGACTCCCGGACTAACGTGGATCTCAAGAATGATCAGACGCCCACT
GAGGTCTCATCATCCCCCTCTGCCATGGCCCTGGTGGCCCTGATGAAATGGAGAAGAACAACAATC
CCCTGTACAGCCGTGAGGTGAGGTCTGGCCAGCCGGAAGGATTTAGGATGAACACGTGCGTTCCCCA
CCCCAGAGGGGCTTTCATGTTGGAGCCAGAGGGCATGTCCCCATGGAACCAGCGGGCGTTTCCCCATG
CCAGGGACCCAGAAGGACACCGGAGGACTGAGGAGCAGCCAATGGAAGTTTCCGTGTGCAGGAGCCCTG
TCCAGCACTCGGCTTCTCCAGGAGCCAGGCCCTCTCCAGAAGGCCGATGCCCTGGTGGGGGCGA
GGACGAGGATGCAGAGGAGGCAGTAGAGCTTCTGAGGCCCTCGGCCCAAGGCCCTCTGGAGCCCAAG
GAGTCCAGGAGCCCGCAGCAGAGTGCTGCCCTGCCAGGAGGTACATGCTGCGGGAGCGGGAGGGGGCC
CAGAGCCTGCATCCTGCGTGAAGGAGACTCCAGACCCCTGGCAGAGCCTGGACCCCTTGTACTCCTTGA
GTCTAAGCCCTTCAAGAAAGGTAGGCCTTACTCTGTGCCCCCTGTGTGGAGGAGGCTCTGGGACAGAAG
CGCAAGAGGAAGGGCGCTGCCAAGCTGCAGGACTTCCACCAGTGGTACCTGGCTGCCTATGCAGACCATG
CCGACAGCAGGGCGGCTTCGGCGAAAGGGTCCGTCTTTGCAGACATGGAGGTCTGTACTGGACACACGT
GAAGGAGCAGTTGGAACTCTCCGGAAGCTGCAGAGGAGGGAGGTGGCTGAGCAGTGGCTGCGGCCTGCA
GAGGAGGACCACTGGAGGATTCCTGGAAGACTGGGGCAGCAGATGACTTTCTAGAGCCTGAGGAGT
ACATGGAGCCCGAGGGAGCAGACCCAGGGAAGCCGCTGACCTTGACGAGTGGCGATGTCCTGAGCTA
CGAGGAGCTGTTTCAAGGAATGTGGAGCTTTCATCGCCACCTCCAGAAAGTTTGTCCAGGAGACAGAG
CTGAGCCAGCGCATCAGGACTGGGAGGACACAGTGCAGCCTCTGCTCCAGGAGCAGGAGCAGCATGTGC
CCTTTGACATCCACACCTATGGGGACCAGCTGGTCTCACGGTTCCCCCAGCTCAATGAGTGGTGTCCCTT
TGCGGAGCTGGTGGTGGCCAGCCGGCCTTCGAGGTGTGTGTTCCATGCTGGCCTCCCTGCAGCTGGCC
AATGACTACACAGTGGAGATAACCCAGCAGCCCGGCTGGAGATGGCCGTGGACACCATGTCCTGAGAC
TGCTCACGCACCAGCGAGCGCACAAAGCGCTTCCAGACCTACGCTGCCCCCTCCATGGCCAGCCCTGA
    
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Chromatograms: https://cdn.origene.com/chromatograms/ja1966_d07.zip

Restriction Sites: NotI-NotI

ACCN: NM_152299

Insert Size: 2500 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 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](#)

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.