

Product datasheet for **SC113965**

NCAPG2 (NM_017760) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NCAPG2 (NM_017760) Human Untagged Clone
Tag:	Tag Free
Symbol:	NCAPG2
Synonyms:	3KS; CAP-G2; CAPG2; hCAP-G2; LUZP5; MTB
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_017760, the custom clone sequence may differ by one or more nucleotides

ATGGAACAACTGAGACGTTTGTACAAGCCGTGTCTAAGGAGCTGGTTGGAGAGTTTTTGCAATTTGTTCA
AACTTGATAAAGAGGCTCTGATCCTTTTCAGCCTAAATGAATTACTAGATGAATTATCAAGGAAACAGAA
AGAAGAATTATGGCAAAGGCTGAAGAATTTATTGACAGATGTGTTGTTAGAAAGCCAGTGGATGGGTGG
CAGGTAGTGAAGCCAGGGTGAAGACAATATGGAACCCGAACATGGCTCAAAATGAGAAAAAGCATAG
AAATAATTTATGCAATTACATCTGTGATTCTTGCTTCTGTGTCTGTAATAAATGAAAGTGAAGTACGA
AGCCCTACTGGAATGTGTTATTATTAATATGTTATTTATATGCATTACCTGAGTCTGAACGAAAACTA
CAGAGTTCTATTAGGATTTGTGTGTTACCTGGTGGGAGAAAGGCTGCCTGCCAAGGAAGACACAGGAA
AGACAGCCTTTGTCATGTTACTAAGGAGGAGTCTGGAGACTAAGACAGGTGCAGACGTATGTCGGCTTTG
GCGTATCCATCAAGCTTTATATTGCTTTGATTATGATTTGGAGGAAAGTGGAGAAATTAAGATATGTTA
CTTGAGTGCTTCATAATATTAATTATATCAAGAAAGAAGAGGGAAGAAGATTTCTTAGTTGTCTCTTCA
ACTGGAATATCAACTTCATCAAAATGATCCACGGGACCATTAAAAACCAGTTACAGGGATTACAAAAGTC
TTTGATGGTATACATTGCAGAAATTTATTTAGAGCTTGAAAAAGGCTTCAGGGAAAATACTGGAGGCG
ATTGAAAATGATTGCATCCAGGACTTCATGTTCCACGGGATACACCTCCGAGGAGGTCTCCAGTGCATT
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TCTCCACGACAATTCGGAGAAAGTGAGGGTAGCTTTTGTGGACATGCTGTTGAAGATCAAAGCTGTGAGG
GCTGCTAAGTTTGGAAAATATGTCCTGAGGACATCTGGTTCGCTGGAAGTCTGACCTG
TGCTCGGCGCTGGTGAGCCTCATCTTAATTCTTCTGCTGTGAATCAGCCGAGGAGGTCTGGTG



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CGAGCGCTGTGTACCCTGGTGCAGATGAACCACGCCGCTGCCAGGAGGTTCTATCAGTACGCCACGAA
CACACCGCTGCACCAACATAGCAAAGCTGATTACGTTATTCGTCATTGCTTAAATGCCTGTATCCAGA
GGGCAGTGAGAGAGCCTCCAGAGGACGAGGAGGAAGAGGACGGAAGGAGAAGGAGAATGTGACTGTTCT
GGACAAAACACTGTCACTAAACGATGTTGCATGCATGGCAGGTTTACTAGAAATCATTGTGATTCTCTGG
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TGCTTCCAGAGTATCTGAAAGTATTTAAGGATGATCGCTGCAAGATCCCTTTATTCATGCTAATGTCCTT
TATGCCGGCCTCTGCTGTCCCCCATTAGCTGTGGTGTGATTTCCACGCTGAGAAGCCGGGAGGAGGGC
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ATTTGAGAAAATGTTGGAATGTATTGCACGGAGCTTCAGGAAGCAGCCGGAAGAAGGCCTGCGGCTGCTT
TATTCTGTTGAGAGGCTCTTCATGAGTTCACTACTGCTGTTGAGTCTCGGCACACAGACACCCCTGTGC
ACCGGGGTGTAATTTCTACTCTGATCGCTGGGCTGTGGTTGAGATAAGTACCAGCTACGGAAGGTTTC
TGACGTAGAAGAGCTTACCCCTCCAGAGCATCTTTCTGATCTTCCACCATTTTCAAGGTGTTTAATAGGA
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AAGCTCAAAAGTGAGGGAGGTTGCAGCCACTGTTACAGAAAACATAAGACATTATGGAATTACTTTG
GAAGAGGATAGCATTGAAAGATTCTCTATGAATCATCATCAAGAACTCTGGGAGAACTTTGAATTCAT
AA
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Restriction Sites:

NotI-NotI

ACCN:

NM_017760

Insert Size:

5000 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_017760.2](#), [NP_060230.2](#)

RefSeq Size: 4076 bp

RefSeq ORF: 2808 bp

Locus ID: 54892

UniProt ID: [Q86XI2](#)

Cytogenetics: 7q36.3

Gene Summary: This gene encodes a protein that belongs to the Condensin2nSMC family of proteins. The encoded protein is a regulatory subunit of the condensin II complex which, along with the condensin I complex, plays a role in chromosome assembly and segregation during mitosis. A similar protein in mouse is required for early development of the embryo. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Aug 2013]
 Transcript Variant: This variant (1) represents the shortest transcript and encodes the shorter isoform (a). Variants 1 and 2 encode the same protein.