

Product datasheet for **MC223707**

Ncapg2 (NM_133762) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ncapg2 (NM_133762) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ncapg2
Synonyms:	5830426I05Rik; Luzp5; mCAP-G2; Mtb
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC223707 representing NM_133762 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAAAAACGTGAGGCGTTTCATCCAAGCAGTATCTAAGGAGTTGGTTGAAGAGTTTCTGCAGTTTCTTC
AACTTGATAAAGATTCTTCTAATCCTTTTCAGCTTAAGTGAAGTACTAGATGAATTATCAAGGAAACAGAA
AGAAGAATTATGGCAAAGACTGAAGGACTTACTAACAGAAACATTGTTGGAAAGCCCTGTGGATAGGTGG
CAGACAGTGGAAGTCGAGGGTGCAGACGATATGGAATCAGAGCACAGTCCAAAGATGAGAAAGAGCATAA
AAATAATATGTCAATTGTGACTGTAATCTTGCTTCTGTATCTATAATAATGAACATGAGAACTATGG
AGCCCTCCTGGAGTGTGCTGTTATATTGAACGGTATTTTATATGCATTACCTGAATCTGAACAAAAACTC
CAGAACTCTATTAGGATCTGTGTGTCAAATGGTGGGAAAGGGGCCTTCCTGCCAAGGAGGACATGGGAA
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GCGCATCCATCAGGCTTTGTATTGCTTTGATTATGATTGGGAGGAAAGTAGAGAAATTAAGATATGCTA
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GTTGGAATGTAGACTTTATTAATGATCCATGAGACCATTAAAAACAGTTAGCTGGATTACAAAAGTC
TTTGATGGTACACATTGCAGAAATTTATTTAGAGCTTGGAAAAAGGCTTCGGGGAAATGTTGGAGACC
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TAGGTTATATAAGCCCATCCTGTGGAGGGGACTAAAGGCCAGAAATCTGAAGTTCGATCAAATGCTGCA
TTGTTGTTTGTGAAGCATTTCTATTAGAGATCCAAACTTCACTGCTACTGAAATGGACAATGAAATCC
AGAAGCAGTTTGAAGAACTGTATAACCTTATAGAAGATCCTTATCCACGGGTTGTTCCACAGGCATCCT
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CAATTATTTTGGATAACAAGCTGAGCCACCCATTATTAGAACAGCTTTTGCCAACTCAGGTATAGTCT
CCACGATAACTCAGAGAAAGTGCGGGTGGCTTTTGTGGATTTGCTGCTGAAGATCAAGGCTGTGAGAGCT



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GCAAAGTTTTGGAAAATATGCCCATGGAGGACATTTTGGTTCGTCTGGAAATGGATTCTCGGCCTGTAT
CTCGACGCCTGGTGAGCCTCATCTTCAACTCTTTCTGCCCGTGAACCGAGCCGGAGGAGTGTGGTGTGA
GCGCTGTGTACGCTGATCCAGATGAATCGCGCAGCTGCCAGGAGGTTCTATCAGTATGCCCATGAGCAT
ACCGCCAGCACCAACATAGCAAAGCTCATCCATGTCATCCGCACTGCTTGAACGCCTGTATCCAGAGGA
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TGCTGTCCCTGTATTAGCTGTGGTGTGATTTCTGTTCTGAGAAATCAGGAGAGTGTACAGGCAGGAGC
TACTGTACCTTGCTCGATTGTCTCTGTTCTGGGGCAAGTGGGGCATGTCTGGAGCTCATTGTGGACT
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GTGAAGGGTTTTTTTTATGTTTCATTACTTCTTGGCATTCTGAAGGAGATAGCTGGAAACACCATAATTC
ACAAAACAGATTAGATGAAAAGTACAGTGTCTTGGACTTAGTCCAGGAAGTGTTCAGAAGATGTT
GGAATGTATTGCCTGTATCTCAGGAAGCAACCTGAAGAAAGTCTTCCGCTCTTTCATTCTGTTCCAGACC
CCTCTTCATGAATTCATCACCACCATCCAGTCTGGCACAAGGACACTGCAGTGCACCATGCTGTGCTTT
CTACGTTGATTGCTGCACCTGTGGTTGAGATAAGTCAACAGCTGCAGAAGGTTTCTGATATAGAAGAGCT
GACCTCACCACAATGCCTTCATGACCTTCTCCATTTTCAAGGTGTTTAGTGGGAGTGATCATGAAGTCT
TCGGATGTGGTCAGGTCATTTGTGGATGAAGTGAAGGCATGTGTAAGTCTGTTGATGTTGAAGGCATTG
TGTGCCTCACAGCTGTTCTGCATATTATTTGGTTATTAACAAAGGTAACATATAAGTGCAAGGTGAA
GGAAGTTGCAACAGCTGTGTACAGAAAGCTGAAGACCTTTATGGAGATCACTTTGGAAGAGGATAGCCTT
GAAAGATTCTATATGAGTCATCAATGAGAAGTGGGAGAAATTTCTGAATCCATGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_133762

Insert Size: 3417 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_133762.3](#), [NP_598523.3](#)

RefSeq Size: 6604 bp

RefSeq ORF: 3417 bp

Locus ID: 76044

UniProt ID: [Q6DFV1](#)

Cytogenetics: 12 F2

Gene Summary: Regulatory subunit of the condensin-2 complex, a complex which establishes mitotic chromosome architecture and is involved in physical rigidity of the chromatid axis. Is required for early embryonic development and is essential for viability and expansion of the inner cell mass (ICM) of the implanting blastocyst.[UniProtKB/Swiss-Prot Function]