

## Product datasheet for **RN207680**

### **Ncaph2 (NM\_001024877) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ncaph2 (NM_001024877) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Ncaph2
Synonyms:	MGC114417
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN207680 representing NM\_001024877  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAACCTCATTGAGGCAGCACTGTTGATCCAGGGTTCAGCCTGTGTCTACAGTAAAAAGGTGGAATACC  
 TCTACTCGCTGGTCTACCAGGCTCTCGACTTTATCTCAGGCAAGAGGCGAGCCAAGCAGCTTTCTTTAGT  
 GCAGGAAGATGGGAGCAACCGGGCTGTCAACTCAGGGACTCCCTGTGAAACAGAGGATGAGTTCCCTGTCA  
 CTGGATGACTTCCCCGACTCCCGGGCTAACGTGGATCTGAAAAATGACCAGGCATCCAGTGAAGTCTTA  
 TCATTCCTTCTGCCCATGGCCCTGGTGGCCCTGATGAAGTGGAAAAGAGCAGCAACCCCTTGTACAG  
 CTGTCCAGGGTGGGTCTGGCCAGCCGGAAGGATTTCCAGGATGAACACATGTACCCCGACCCAGAGGT  
 TCCTTTATGTTGGATCCAGTGGGAATGTGTCCTGTGGAGCCTGTAGACGTGCACCCCATGCCAAGGAGCC  
 AGAAAGATGCTGAGGAGGCTGAGGAGCAGCCGATGGCAGTGTGAGGAAACGGGAGTCTGTGTCTGTGCC  
 CAGCATCTCCCAAGAGCCAGATGGCCAGCGCTCAGCAGTGGAGATGAGGACGCAGAGGATGTAGCAGAG  
 CTCCCGGAGGTTGCTCTAGAGCCTGCAGAGCCAGGACCTCACAGCAGACTGCCATCTTGCCAAGGAGAT  
 ACATGTTTCGGGAACGGCAAGGGGCCCGGAACCTGCCTCCCAGCCGCAGGAGACCCAGACCCCTGGCA  
 AAGCCTGGACCTTTTGACTCCTTGACTCTAAGCTCTCCAGAAAGGTAACCCATTCTGTGCCACCC  
 GGTGTGGAGGAGGCTCCAGGACAGAAGCGCAAAAGGAAGGGTCCACCAAGTTGCAGGACTTCCACCAGT  
 GGTACCTGGATGCCTATGCTGAACACCTGACGGCAGGAGGGCTCGGCCGGAAGGGCCCAAGCTTTGCAGA  
 CATGGAAGTCTGTATTGGAAACACGTAAGAAGACAGCTCGAGACCCCTCAGAAGCTGCGGAGACGTAAG  
 ATGACCGAGAGATGGCTACCTGGGGCAAGCAGGACCTGTGGCCTGCAGAGGAGGAACGCTTGAAGAGC  
 CCCTAGAAGACCTAGGGGTAGCAGATGACTTTCTAGAGGCCGAAAGAGTACGTAGAAGAGTCTGAGGGGT  
 GATGCCTAGGGAAGCTGCTGGCCTAGATGCAGAGGCCATACCAGAGTCCCTGAAATACGAGGAGCTGGTC  
 CGAAGGAATGTGGAACCTTTCATTGCCACCTCCAGAAGTTTATTCAGGAGACGGAGCTGAGCCAGCGCA  
 TCAGGGACTGGGAAGATACCATCCAGCCCTGCTCCAGGAGCAGGAGCAGCATGTGCCCTTTGATATCCA  
 CACCTACGGGGACCAGTTGGTTTACGGTTCCCCAGCTCAATGAATGGTGGCCCTTTGCAGAGCTTGTG  
 GCTGGGCAGCCTGCTTTGAGGTGTGCCCTCCATGCTGGCTTCTTGAAGTGGCAATGACTATACGG  
 TGGAGATACCCAGCAGCCAGGCTGGAGGCAGCTGTAGACACGATGTCTCTGAGACTGCTCACACATCA  
 GCGAGCCACATGCGCTCCAGACCTATGCTGCCCATCTATGGCCAGCCT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_001024877

**Insert Size:** 1665 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.

**RefSeq:** [NM\\_001024877.1](#), [NP\\_001020048.1](#)

**RefSeq Size:** 2141 bp

**RefSeq ORF:** 1665 bp

**Locus ID:** 300149

**UniProt ID:** [Q4V8I2](#)

**Cytogenetics:** 7q34

**Gene Summary:** Regulatory subunit of the condensin-2 complex, a complex that seems to provide chromosomes with an additional level of organization and rigidity and in establishing mitotic chromosome architecture (By similarity). May promote the resolution of double-strand DNA catenanes (intertwines) between sister chromatids. Condensin-mediated compaction likely increases tension in catenated sister chromatids, providing directionality for type II topoisomerase-mediated strand exchanges toward chromatid decatenation. Required for decatenation of chromatin bridges at anaphase. Early in neurogenesis, may play an essential role to ensure accurate mitotic chromosome condensation in neuron stem cells, ultimately affecting neuron pool and cortex size (By similarity). Seems to have lineage-specific role in T-cell development (By similarity).[UniProtKB/Swiss-Prot Function]