

Product datasheet for **MC201322**

Ncaph (NM_144818) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ncaph (NM_144818) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ncaph
Synonyms:	A730011O11Rik; Brn1; HCAP-H; mKIAA0074
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC021499 sequence for NM_144818
 CCACGCGTCCGCGGACGCGTGGGCGCGATTTAAAACCTTACTCCGGAGACGTGGAGAGCAAGATGAGAATT
 CCGCGCTCAGAAACAATGAATAGCTCTTTTCTGAAGGCCCGAGGACAACAGGATGTTCTTTCCTCACCTT
 TGGAACGGGTGCCCCAGCATCCCGGCCGGGAAGGCTCCACTTGGCACTCTAAAACCCAGTCCCTCGA
 AGACTTTCCTCAGAATGACGATGAAAAGGAGCGGATGCAGCGGAGACGCTCCAGGGTCTTTGACCTGCAG
 TTCAGTACAGATTCGATTCATCTGGCCTCCCCTAACAGGAATATTGATGTTTCACTACCATATCTAAGT
 TTACAAACACACAGATTACAGAACATTACTCTACCTGTATCAAGCTTTCTTCTGAAAATAAAATCACTAC
 TAAGAATGCTTTTCGGCTTGCATTTGATTGATTTTCATGTCAGAGATTCTGAAGCAGAAAAGATGCAGAACCA
 ACCAACTTTAAAGTGGCTGCTGGCACCTTGGATGCCAGCACCAAGATCTATGCTGTCCGTGTGGATGCCG
 TCCATGCTGATGTATACAGAGTCTTGGGGGGTGGGCAAAGACACACCCTCAAGGAGAGGAGAGCCA
 CAGTGGAGATGGAAGTACCCTTGAACAGAAAAGGACTAAAAACCTGCAAAGCCAAAAGAAGCAGTCC
 TGCAAACCATTTGAACAGAATCTCAGCAATATCAATGTCTCGAAAGCCGATGGGAAGTGTGCGGTGGATC
 CTATGTTTCAGAAGACAGCAGCCTCCTTGTGAATGCAGCAGACTGGGGTATTTCTCTCCACGCTGCA
 CTGCCAGGACTACAGAAGCGAGTGTCTTTCTTCCGACATGCAGACCCTCTCCTCAGGAGAGCCCTC
 GAGCTGCCGGATCTGGGTTTCGTAGACATGACAGATTTAGAAGCTTCTTGCAGCAGTGTGTGGAAGACC
 GCCCGCTCTGCCATCCCTGGCCGGTTCAGTTTACTAAATGGGACAGCGAAAACACATAATGAGTCTGT
 GTCGGCCCTGGTGACAAGTTTAAAGAAGATGATCAAGTATTTGACATCAATGCTGAGGCTGAAGACGAT
 GAAGAGGATGTCCCTGATGGGCCCTGGTGGAGGATTTTGTGACAATGATGAGCCAGACCTTTCTGCAG
 CTGGGGACCATGAAGAGTTCGGAGCTGGAAGGAGCTCTGTCCAGTCCAGAGCAACCAGGAAGAAGTTAT
 TTCCCTCGAGGACAGAGACATCCAAGTCATGTGCTCCTTTTTATCCATGAAAACCTGGGGAATATTCCTAT
 TTCAGTCCCGGACCATGAAGATGTGGGCTGGCCAGATCACTGGCGCTTCAGGCCTCGACCCAAGCAAG
 ATGCTACCTCTGCACAGAGCACAAAAAGAAGAGTGCAAAGAAAGACTTTGAAATTAATTTTGTATGATGA
 TATTGATTTTGTATGCATATTTTCAGAAAACAAAGGCTGCTACCATTCTGACCAAGTCCACTTTGGAGAAC
 CAGAATTGGAAAGCCACCCTCTTCCACAGATTTCCACTATGAAACTGATAATCTGATCCAGCTTACC
 TCAAACAGGCAAAGGTCACCTAAGATGGACCAGGACCAGAAGGCTAAGACTGAGCACTATGAGGAAAT
 TGAAGACTATGATTACAACAACCCTAACGACACCTCCAACCTATTGTCCTGGACTTCAGGCTGCTGACAGT
 GATTATGAAGAGGCAGACGATTTATTTGCGGATCCAGTCCGGACCCTTGACCTTGAGTCTGATCCAAAGA
 CAACACAAGAGAATGGTACATTTCTCCTGAAAACCAAGGAGTAGATATCACAACCTACCAAGAGTTGAA
 CTTGGTGGCTGAGCCTCAAAAGTGAATAAAATAGAAATTCATTACGCCAAGACTGCCAAAAAGATGGAC
 ATGAAGAAGCTGAAGCAGAGTATGTGGAGTCTGCTGACGAAGTTTCTAGGAAGGAGGCTGACACAGAGG
 CAAACCACACTGAAAGTGGACAGGAAGGTGCCCCGAGGAAGTGGCTGATGAGAAGAACTCAGTGGGCT
 CACAAAGGACCTGCAGACAAGGCTGCCCCGCTCATGGCTCAGAACCCTCCATACCCCTGGCTTTTGCC
 TGTCTTCTGCACTTAGCAAATGAAAAGAATCTGAAGCTAGAAGGCACAGAGGATCTTTCTGATGTTCTGG
 TGATGCAAGGGGACTGAGTCCACTTTGAGACGCTGTGCAGCGGGATGCCATGGCTTCTGGTGGCCGTGG
 AGAGGTGCTGGGCTGTAGCGTGGCTATAGCCAACCACCACGGTGTGGTTCTCGGGATGCCACCACGCT
 AGGAAGCTCCATGCTGTTGGAAGGTCTCACGTGGGTAACGTCCACCTAGGAGAGGGAAGCCCTTTAGTCT
 GTACAGACAGTCCGATCTTTATATCCATGTGCTCTGGTCACTTTCTGTGACCGTCCCCTTTTATTCTG
 TACTGTGAGAATCATTTCTCCATAGCCTCTTTCTGTCTTAAAGAATTTCCAGATCTATGTACATAAAA
 TTTATCATTTTTAACTTGTAAGTGTATTTAATACCCCAAAATAAACTATTCTGGCAAAAAAAAAAAAAAAA AAA

- Restriction Sites:** RsrII-NotI
- ACCN:** NM_144818
- Insert Size:** 2172 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: [BC021499](#), [AAH21499](#)

RefSeq Size: 2663 bp

RefSeq ORF: 2172 bp

Locus ID: 215387

UniProt ID: [Q8C156](#)

Cytogenetics: 2 F1

Gene Summary: Regulatory subunit of the condensin complex, a complex required for conversion of interphase chromatin into mitotic-like condense chromosomes. The condensin complex probably introduces positive supercoils into relaxed DNA in the presence of type I topoisomerases and converts nicked DNA into positive knotted forms in the presence of type II topoisomerases. 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.[UniProtKB/Swiss-Prot Function]