

Product datasheet for **MR210292**

Ncaph (NM_144818) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ncaph (NM_144818) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ncaph
Synonyms:	A730011O11Rik; Brnn1; HCAP-H; mKIAA0074
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR210292 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGAATAGCTCTTTTCTGAAGGCCCGAGGACAACAGGATGTTCTTCTCACCTTTGGAACGGGTGCCCC
CAGCATCCCGGCCCGGAAGGCTCCACTTGGCACTCCTAAAACCCAGTCTCGAAGACTTTCCTCAGAA
TGACGATGAAAAGGAGCGGATGCAGCGGAGACGCTCCAGGGTCTTTGACCTGCAGTTCAGTACAGATTCCG
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TTACAGAACATTACTCTACCTGTATCAAGCTTTCTTCTGAAAAATAAACTACTACTAAGAATGCTTTCGG
CTTGCAATTTGATTGATTCATGTCAGAGATTCTGAAGCAGAAAGATGCAGAACCAACCAACTTAAAGTG
GCTGCTGGCACCTTGGATGCCAGCACCAAGATCTATGCTGTCCGTGTGGATGCCGTCCATGCTGATGAT
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CAGAATCTCAGCAATATCAATGTCTCGGAAGCCGATGGGAAGTGTGCGGTGGATCCTATGTTTCAGAAGA
CAGCAGCCTCCTTTGATGAATGCAGCAGACTGGGGTATTTCTCTCCACGCTGCACTGCCAGGACTACAG
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CAGAGTATGTGGAGTCTGCTGACGAAGTTTTCTAGGAAGGAGGCTGACACAGAGGCAAACCACTGAAA
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GACAAGGCTGCCCCGCTCATGGCTCAGAACCTCTCCATACCCCTGGCTTTTGCCTGTCTTCTGCACTTA
GCAATGAAAAGAATCTGAAGCTAGAAGGCACAGAGGATCTTTCTGATGTTCTGGTATGCAAGGGGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210292 protein sequence
 Red=Cloning site Green=Tags(s)

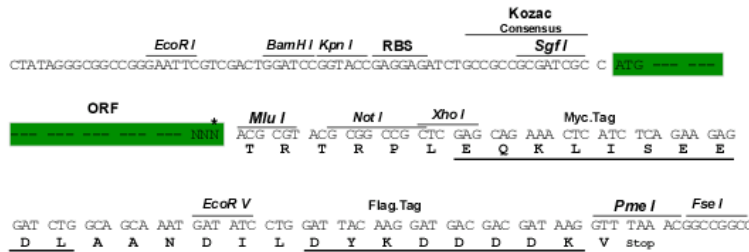
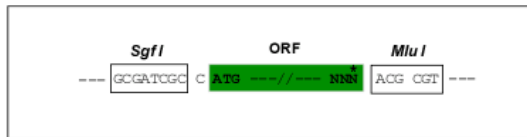
MNSSFLKARGQQDVLSSPLERVPPASRP GKAPLGP KTPVLEDFPQNDDEKERMQR RRSRVFDLQFSTDS
 IHLASPNRNIDVSTTISKFTNTQITEHYSTCIKLSSENKITTKNAGLHLIDFMSEILKQKDAEPTNFKV
 AAGTLDASTKIYAVRVD AVHADVYRVLGGLGKDTPPQGEESHSGDGSTLETERTKKPAKPKKKQSKTIE
 QNL SNINVSEADGKCAVDPMFQKTAASFDE CSTTGVFLSTLHCQDYRSELLFPSDMQTLSSGEPLLPDL
 GFVDMTDL EASLQQCVEDRPLCP SLAGFQFTKW DSETHNESVSALVDFKFKNDQVFDINAEADDEEDVP
 DGPLVEDFVDNDEPDL SAAGDHEEFRSWKELCQVQSNQEEVISLEDRDIQVMCSF LSMKPGEYSYFSPRT
 MKMWAGPDHWRFRPRPKQDATSCTEHKKKS AKKDFEINFDDIDF DAYFQKTKAATILTKSTLENQNWKA
 TTLPTDFHYETDNL IQLHLKPGKRSLKMDQDQAKTEHYEEIEDYDNNPNDTSNYCPGLQAADSDYEEA
 DDLFADPVGTLDESDPKTTQENGHISPENQGV DITTYQELNLVAEPQKVNKIEIHYAKTAKKMDMKLKL
 QSMWLLTKFSRKEADTEANHTESGQEGAPEEVADEK KLSGLTKDLQTRLPLPMAQNLSIPLAFACLLHL
 ANEKNLKEGTE DLSDVLMVQGD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_144818

ORF Size: 2172 bp

OTI Disclaimer: 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_144818.3](#)

RefSeq Size: 2702 bp

RefSeq ORF: 2196 bp

Locus ID: 215387

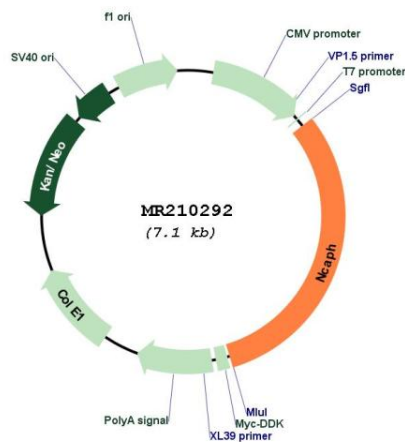
UniProt ID: [Q8C156](#)

Cytogenetics: 2 F1

MW: 81.3 kDa

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]

Product images:



Circular map for MR210292