

## Product datasheet for **MC228354**

### **Ncaph2 (NM\_001271600) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ncaph2 (NM_001271600) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ncaph2
Synonyms:	D15Ertd785
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC228354 representing NM\_001271600  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGGATGTGGAGCTGGACCAGATCTGCATTTCTTTTGTGAAGGCCAAAACCACAATGAACCTTATTG  
 AGGCAGCACTGTTGATCCAGGGCTCAGCCTGTGTCTACAGTAAGAAGGTGGAGTACCTCTACTCGCTGGT  
 CTACCAGGCTCTCGATTTTATTTCTGGCAAGAGCGGGCCAAACAGCTCTCCTTAGTTCCAGGAAGATGGG  
 AGCAAGAAGACTGTCAACTCAGAGACTCCCTGTGAAACAGAGAATGAGTTCCTGTCAGTGGACGACTTCC  
 CTGACTCCCGGGCTAATGTGGATCTGAAAAATGATCAGGCATCCAGTGAGCTGCTTATCATACCCCTACT  
 GCCCATGGCCCTGGTGGCCCTGATGAAGTGAAAAGAACAGCAGCCCTTGTATAGCTGTCAGGGTGAC  
 ATCTTGGCCAGCCGAAGGATTTCAAGTGAACACGTGTATGCCTAACCCAGAGGCTGCTTTATGTTAG  
 ATCCAGTGGGAATGTGCTCTGTGGACCTGTGGTGGCCGTGGAGCCATACCCATGTCAAGGAGCCAGAA  
 AGATCCTGAGGACGCTGAGGAGCAGCCATGGAAGTGTCTAGGAACGGGAGTCTGTTCTGTACCCGAC  
 ATCTCCAAGAGCCAGATGGTCCAGCGCTCAGCGGTGGAGAGGAGGATGCAGAGGATGGAGCAGAGCCCC  
 TGGAGGTTGCTCTAGAGCCTGCAGAGCCAAGGACCTCACAGCAGAGTGCCATCTTGCCAAGGAGATACAT  
 GCTGCGGGAACGACAAGGGGCACCGGAGCCTGCCTCCCGGCTACAGGAGACCCAGACCCCTGGCAGAGC  
 CTGGACCCCTTTGACTCCTTGAATCTAAGGTCTTCCAGAAAGGGAAACCTATTCTGTGCCACCCGGTG  
 TGGAGGAGGCTCCAGGACAGAAGCGCAAGAGGAAGGGTGCACCAAGTTGCAGGACTTCCACAAGTGGTA  
 CCTGGATGCCTATGCTGAACACCCTGACGGCAGGAGGGCTCGGCGGAAGGGCCCAACCTTTGCAGACATG  
 GAAGTCTGTACTGAAACATGTGAAAGAACAGCTCGAGACCTTCCAGAGCTGCGGAGACGTAAGATCA  
 ACGAGAGATGGTACCTGGGGCCAAGCAGGATCTGTGGCCTACAGAGGAGGATCGCTTGGAAAGATCCCT  
 CGAGGACCTCGGGTAGCAGATGACTTTCTAGAGCCCGAGGAGTACGTGGAGGAGCCTGCGGGGGTGATG  
 CCCGAGGAAGCTGCTGACCTCGATGCAGAGGCCATGCCAGAGTCCCTGAGATACGAGGAGCTGGTCCGGA  
 GAAATGTGGAACCTTTCATTGCCACCTCCAGAAGTTTATCCAGGAGACAGAGCTGAGCCAACGCATCAG  
 GGACTGGGAAGATACCATCCAGCCCTGCTCCAGGAGCAGGAGCAGCATGTGCCCTTGTATCCATATC  
 TACGGGGACCAGTTGGCTTACGGTTCACCGTTCACCCAGCTCAATGAATGGTGTCCCTTTTCAGAGCTTGTAGCAG  
 GGCAGCCTGCTTTGAGGTGTGCCGCTCCATGCTGGCCTCCTTGCACCTGGCTAATGACTACACAGTGGA  
 GATCACTCAGCAGCCAGGACTGGAGGCAGCTGTGGACACAATGTCTCTGAGACTGCTCACACACCAGCGA  
 GCCCACCCCGCTTCCAGACCTATGCTGCACCATCCATGGCCAGCCT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001271600
- Insert Size:** 1731 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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\\_001271600.1](#), [NP\\_001258529.1](#)

**RefSeq Size:** 3247 bp

**RefSeq ORF:** 1731 bp

**Locus ID:** 52683

**Cytogenetics:** 15 44.84 cM

**Gene Summary:** This gene encodes a component of the condensin-2 complex. The encoded protein may regulate the structure of mitotic chromosomes. Loss of function of this gene disrupts T-cell development. There are two pseudogenes for this gene on chromosome 17. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2012]  
Transcript Variant: This variant (4) uses an alternate in-frame splice site in the 5' coding region, compared to variant 1. The encoded isoform (d) is shorter than isoform a.