

Product datasheet for MC224612

Ncapd3 (NM_178113) Mouse Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Ncapd3 (NM_178113) Mouse Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Ncapd3 |
| Synonyms: | 2810487N22Rik; 4632407J06Rik; AI195468; AU018739; B130055D15Rik; mKIAA0056 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Fully Sequenced ORF: | >MC224612 representing NM_178113 Red=Cloning site Blue=ORF Orange=Stop codon |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGCTGCAGGATCTGGAGAAAACCTGCAGCCTTGGTGTCCGCTGGGTCTCAGCCTCGAATGGGTGA
AGACCGTGTGGGACCTGGACTTCACGGAGATTGAGCCTTGGACCCAGCATAGTAGGCGAGATCTAGA
GACTGGAAGAGATGCGTTCACAAAGCTCTATGGAAGCCTTCCCTTTGCGACTGACGAAAGTGGATCT
TTAGAGAGCATCTGGACCTTCTCACTGAGAATGACATTTCCAGTAACACACTGGTGGCATTGTTCTGTC
ACTTCGTCAGGAAGCCATAAAAAAGTGCCAGTGCACAATATCGAGAGTATGGCCTTCATGCTGCTGG
GCTCTATTTCTTGCTGTTAGAAATACCAGGCAGCGTGGTCAATCAAGTGTCCACCCAGTATGTTTGAC
AAGTGTATTGAGATTCTGAAGAGGAGCTGGCCACAAGAATCTAATTGACTCAGAAAAGAAAAAGGACC
ACTCCAAGAGTTCTAAGGATAATTATAGGAAGAGCAGAAAAAGAGGAAAACACCTAGAAAAGAGGATTA
TCAGGTGGATGAACCTTCAAGAGAGGAAGAGGAAGAGGAAGAGGAGATTTATTTTCTGGCCGGACCTT
TGTCAAATACGAGATGCCATATTTAATCTTCTAAAGAATTTTTAAGGCTTCTGCCCAAGTTTTCTCTTA
AAGAAAAACCACAGTCTATTCAACTTGTATAGAGGTATTTGTTGCATTAAGTATTTGAGCCAATTCC
TCATAAATTTCTATTTTCAAGCCAGGAACCTCAATGAAGTCAAACACATATCAGAGCTGGCCTACTAT
GGACTGTATTTGCTGTGCTCCCCAGTACATGGAGAGGAAAAAAGGTTATTGGTTCTATTTTCCATCAAA
TGCTAAATGTGATATTGATGTTAGAAAGTAGGGGAAGGGTCCCGCTGTGCCCCCTAGCCATAACCTCACA
AGTCATCAATTGTAGAAACCAGGAGTCCAGTTTGTGAGTCACTTGTGGATGAACTACAAGCAAGTGTG
TACCCAGTCTTGGTACTCTACTGCAGCATATCTGTGCAAGGTGGTAGACAAAGCAGAGTATCGGACCT
ACGCAGCACAGTCCCTGGTCCAGCTGCTGACTAAGCTTCCCTCTGAGGAGTATGCCACATTCATTGCCTG
GCTTTACAAATATTCACGAAGTTCCAAGATTCACACCCGGGTCTCACTCTTGATGTGGCTTTAGCTCTC
TTAACGCTGCCTGAAAGAGAGCTGGATGACTGTATCTTTGGAGCATCAGAAGTTCTAAAGCATAAAT
TCTTTGTGCAAGAAATTATTTGATCGCTGCTTAGACAAGGCACCTACTGTCCGACGAAGGCAGTGTG
CAGCTTTGCACATTGTCTGGAGTTGCTTCTAGCAACACATCTGAGAGTATATTGAAATCTTCATTAAC



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AGTAATCTAGTTCACGGGATACAGAATCTCTAACACCGTACTGAATCCCTCACCAGTGCTAACCAAGTC
 GAAATGGCTACTCCGCGCAAAGCCGTACCCATAACAATGATGAACAGACTCTGCCTGGAGAAAGATGCTT
 CATGACAAATGCTGAGAAAAAGAATCAAGGATGAGAAAAAACAATGTCAGGAAGTCTGCACTCCAGGTGTTA
 ATGAGCATTGTTGAAACACTGTGACATCTTGAGCATGGAGCAGGACCTGTTGATCCTGCAGGACCATTGTC
 GAGACCCTGCCATATCTGTGCGGAAGCAAGCCCTACAGTCTCTTACAGAACTTGTATGGCCCAACCTAC
 ATGTGTCCCAAGTCCAGAAAGCCCTGGTTGATGGGTGTCATCCCAAGTGGTGGACTGTGAGAGCACAGTG
 CAAGAGAAGCCCTGGAGTGCCTGGACCAGTCCCTGCTGCAGAACATTAAGCATACAAGAAATTTACACA
 GTGCAGACAGAAGCCAGGTGCTTGGCTGGTCCCTACTTGTCTCCTCACCATAGAGAACCAGGATCTGAG
 ACGCTATTTAAATAAGGCTTTTCATATCTGGTCCAAGAAAGATAAATTTCATCCACTTTTATAAACAGT
 GTGATATCCCACTGACACAGAAGCTTCTGCACCAGCCTGGATGCTGCTGTCCAAGATCACTTGTCTCAT
 CACCCAAGCTGGACTACACAAAATAATAGAGTCGTGGGAGAGACTCAGCAGAGAACAGTCTCCCAACTC
 AAACACCTTAGGCTATATGCTGTGTGTCATTGGGCATATTGCAAAGCATCTTCCCAAGGGGACCCGGGAC
 AAGATAACTGGTGTGATCAAGGCCAAGCTGAATGGATTCAGTGGTCTCCAGAGCTGATCAGTTCGTCTG
 TTGACGCATTGCAAAGCTTTGCAGGGCATCTGCCAAGACAGTGTGGAAGAGCAGGGACTGCTGAAGCA
 GGTGTGTGGGGATGTGCTCGCCACTGTGAGCAACACCTCTAACATCCTTCTGAAGGAAGATGGGACA
 GGGAACATGGATGAAGGCCCTGGTGGTGAATGTATCTTTACCCTAGGAGACATAGCCAGTTATGTCCAG
 CCATAGTAGAGAAGCGAGTCTTCCCTTCAATCCAGTCGATTCTGGCCTCTTCTGCTCATTGCGATCACTT
 ACCATCATCTCAAGGGACCACAGACGCCCTCGACAGTCAGCCTCCTTCCAGCCAGAAGCTCCGCCATG
 CCTTCTGTGATTAGAGCAGATGCCATCATCACTTTAGGTAACACTCTGTTTACAGCATGAAGACCTTGCAA
 AGAAAAGCATCCCAGCCCTTGTGCGAGAAGTGAAGTGAAGTGGAGATGTGGCTGTCCGCAACAATGTCAT
 CATTGTGATATGTGATCTTTGTATCCGGTACACTGTGATGGTGGACAATTATATCCCAACATTTCTGTC
 TGCCTGAAGGATTCAGACCCGTTTCATCCGAAAGCAGACACTGGTCTTGTACCAACCTTTACAGGAGG
 AATTGTGAAGTGAAGGGCTCTCTGTTCTTCCGATTTGTCAGCACTTTGGTGGACTCACACCCAGACAT
 TGCCAGCCTTGGGGAGTTCTGCCTGGTCACTTGTGCTGAAGAGGAACCCCTACCATGTTTTCCAGCAC
 TTCATTGAGTGCATATTCACACTCAACAGCTATGAGAAGCATGGGCAGTATAACAAGTTTTCCAGTCAG
 AGAGGGGGAAGCAGCTGTTTTACTAAAGGGAAGACAAACAAGGAGAAGCGAATGAGAATCTACAAGTT
 TCTTCTGAGCACTTACAGACGAGCAGCGTTCAATGTCACCTTCCAAGATCTGTCTTAACATTTTGGCA
 TGCTTACGGATGGCATCCTGCCATGGACATGGAAGCCAGCGAGTTGCTCTCAGATACCTTTGACATCC
 TCAACTCCAAGGAGATCAAATATTGGCAATGAGAGCACAGACATCCAAGGACCTCTGGAAGAAGATGA
 CGTGGCTCTGGCAATGTGGTCAATGCAGGAAGCACAGATGAAGATCATCTCACAGTTCAAAGAGGAAT
 TTCATAGAGAATATTATCCAATCATCATCTCCCTGAAGACTGTGCTGGAGAAAAATAAGATCCCTGCTT
 TGCGGGAACCTCATGAACTACCTGAGGGAAGTTATGCAAGATTACCGGGATGAAATCAACGATTTCTTTGC
 AGTTGACAAACAGCTGGCATCTGAACTTGAATGACATGAAGAAGTATAATGAGCAGCTAGCCAGGAG
 CAAGCTCTGACAGAACATGCTAATGCAACCAAGGGCCTGAAGACAGTGACAGGGTACCCTCTGCTCAGG
 TTGCTCCAGACTTAGAAGCTGTACCTGCTTGTGCTGCTCCTATGGCTGCTGCTGCTGCTGCTGCTCC
 TATGGCTGCTGCTGCTGCTGCTGGCCAGGACAATGCTGATGTGCCTCCAACCCAGAGCCGGCCTTCA
 GCACCTAGGTCCAACCTCACACCAACTTTGCCTCCCATATCCGAAATGGACCTCTGAAGATAATGTCCA
 GTACCAGGCCATGTCTCTCAGTACCATCGCCATCCTGAATTCAGTCAAGAAAGCTGTTGCGTCTAAGAA
 TAGGACACGCAGTTTAGGAGCCTTGCCTTCAATGTGGAGACCGGAAGCCAGAAAAATCCCTCAGCCAT
 GAATCTTCTTAAGCTTGGAGAAAGAGTCTGACAGAACTGTCAACCATGTAACCTAAACGGCAATCAGCA
 CCCCAGAGAATTCCATCAGTGACGTACATTTGACAGAGGGTCAAGTACATAGGGACACCAGCAACTTT
 TTTTACCAAAGAGAAACAGAAAGCCCAAGAAACAAGGAAGTACATTTTATGTTTTATCGTCTTGATAAA
 AGACCTCCACAGTCTCCACAGTGAACGTAAAGTCCCCAGCCAGGAGTACGGCAGCACAAAGATCCAGCC
 GGAGGTCCCTTCGTAAGGCCCCCTGAAGACAGCCAAC**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAAGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_178113
Insert Size: 4521 bp

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| 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: | <ol style="list-style-type: none">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_178113.3 , NP_835214.2 |
| RefSeq Size: | 5519 bp |
| RefSeq ORF: | 4521 bp |
| Locus ID: | 78658 |
| UniProt ID: | Q6ZQK0 |
| Cytogenetics: | 9 A4 |
| 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. 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. Specifically required for decatenation of centromeric ultrafine DNA bridges during 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.[UniProtKB/Swiss-Prot Function] |