

Product datasheet for **MC206310**

Ndc80 (BC020131) Mouse Untagged Clone

Product data:

| | |
|---------------------------|---------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | Ndc80 (BC020131) Mouse Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Ndc80 |
| Synonyms: | HEC, HEC1 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | PCMV6-Kan/Neo (PCMV6KN) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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Fully Sequenced ORF: >BC020131
 CCGACGCGTGGGTTCTAGATCGCGAGCGGCCGCTCGCGATCTAGAACTAGGGCGCCGGTCTCGTTGAGA
 AGCTGAGCGAAAGGTTTCGAGAAATGAAGCGCAGTTTCAGTTCCACCTGTGGTGCTGGCCGCTCTCTATG
 CAGGAGTTAAGGACCCTGGACCTCAATAAGCCAGGCCCTTATACCCCTCAAACCAAGAAAGATCAACCT
 TTGGAAAGCTGAGTACACACAAACCGACATCGGAAAGAAAAGTCTCAATATTTGGGAAAAGGACTAGCGG
 ACATGGATCCAGGAATAGTCAACTTGGTATATTTCCAGTTCTGAAAAAATCAAGGACCCAAGACCACTT
 AATGACAAGCATTCACTCAGCAGTGTATTCGACAACTCTATGAGTTTCTTACAGAAAACGGTTATGTGT
 ATAGTGTATCCATGAAGTCTCTGCAAGCTCCATCCACTAAAGAGTTCTAAAGATCTTCGCCTTTCTTTA
 TGGCTTTCTGTGCCCGTGTATGAACTTCTGGTACAAAATGTGAAGAAGAGGTCCCAAGAATTTTTAAA
 GCACCTGGGTATCCCTTACACTGTCCAAGAGCTCCATGTATACAGTGGGAGCCCTCACACGTGGCCTC
 ACATCGTGGCTGCCTTGGTGTGGCTCATAGACTGCATCAAGATTGATACTGCCATGAAAGAAAGCTCACC
 TTTATTTGATGATGGCAGCTCTGGGAGAAGAGACTGAAGATGGAATTAACACAATAAGTTGTTTTTG
 GAGTACACCAAAAAGTGTATGAGAAGTTCATGACCGGGCCGACAGCTTGAAGAAGAGGATGCTGAGC
 TGCAGGCAAGCTGAAGGACTTGTACAAGGTAGATGCGTCTAAGCTGGAGTCACTCGAAGCAGAAAACAA
 AGCACTAAATGAACAGATTGCAAGACTGGAGGAGGAAAGAGAAAGAGAACCGAACCGTCTGATGTCATTG
 AAGAAACTGAAAGCGTCCCTTACAAGCAGATGTTCAAAACTATAAAGCATACATGAGCAACTTGGAGTCTC
 ATTTAGCCGTCCTGAAACAGAAATCGAATAGTCTTGATGAAGAAATGGTAGAGTAGAACAAGAATGTGA
 AACTGTTAAACAGGAAAACACTCGACTACAGAGTATCGTTGATAACCAGAAGTATTCAGTCGCTGACATT
 GAGAGAATAAATCATGAGAAAAATGAATTGCAGCAGACTATTAATAAATTAACCAAGACCTGGAAGCCG
 AACAGCAACAGATGTGGAATGAAGAATTAATAACGCAAGAGGCAAGAGGCGATTGAAGCGCAGCTAGC
 GGAGTACCACAAGTTGGCTAGAAAATTAAGCTTATCCCCAAAGGTGCTGAGAATCCAAGGTTACGAC
 TTTGAAATTAAGTTAATCCTGAGGCGGGTGCCAACTGCCTTGCAATACAGGACTCAAGTGTATGCAC
 CGCTCAAAGAGCTCTTGAATGAAAGCGAAGAAGAAATTAACAAAGCTCTGAATAAAAAGAGGCATCTGGA
 GGATACTTTAGAACAACCTGAACACCATGAAAACGGAAGCAAGAACAAGTGTGAGGATGCTGAAGGAGGAG
 ATTCAGAAAACCTGGATGACCTTACCAGCAGGCAAGTGAAGGAAGCTGAGGAAAAAGACAAGAAGAGTGCCA
 GTGAGCTTGAGTCCCTGGAGAAACACAAGCACCTGCTGGAGAGCGGGGTGAACGATGGCCTCAGCGAGGC
 CATGGATGAGTTGGACGCCGTCCAGCGGAATACCAGCTAACTGTGAAGACCACAACCTGAAGAAAGAAGA
 AAGGTGGAACAACCTTACAACGCTTTTTGGAGATGGTCGCCACACAGTGGGTCTTTGGAGAAACATC
 TTGAAGAGGAGAATGCTAAAGCCGACAGAGATGAAGAATTCATGTCTGAAGATCTCCTGAAAAACAT
 CAGGGAGATGGCAGAGAAGTATAAGAGAAATGCTGCCAACTTAAGGCTCCCGACAAATGAAGATAAACT
 AATCTTTTCATAGATATAACATAGTATTTTATCCCCAAATTATGATAATATGGTAAATTGACCTTTAGAC
 AGATCAGACAGTTAATAAAGTATACTTGTAAAGTGAAGAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: BC020131

Insert Size: 1929 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: [BC020131](#), [AAH20131](#)

RefSeq Size: 2150 bp

RefSeq ORF: 1929 bp

Locus ID: 67052

Cytogenetics: 17 E1.3

Gene Summary: Acts as a component of the essential kinetochore-associated NDC80 complex, which is required for chromosome segregation and spindle checkpoint activity. Required for kinetochore integrity and the organization of stable microtubule binding sites in the outer plate of the kinetochore. The NDC80 complex synergistically enhances the affinity of the SKA1 complex for microtubules and may allow the NDC80 complex to track depolymerizing microtubules. Plays a role in chromosome congression and is essential for the end-on attachment of the kinetochores to spindle microtubules.[UniProtKB/Swiss-Prot Function]