

Product datasheet for **MC216225**

Nuf2 (NM_023284) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nuf2 (NM_023284) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Nuf2
Synonyms:	2410003C07Rik; AU044112; C85691; Cdca1; NUF2R
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

Fully Sequenced ORF: >MC216225 representing NM_023284
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAACCTTTGTCAATCCCGAGATACAATGTAGCTGAGCTTGTGGTTCATATTCGCAATAAATTATTAA
 CAGGAGCAGATGGCAAAACCTCTCGAAGAGCGATTTTCTTCCAATCCGAAGTCTGATGTCTTGTACAT
 GATTTACATGAAAGCCTTACAGTTAGTGTATGGAGTCCGGCTGGAGCACTTCTACATGATCCCGATGAAC
 ATAGAAGTCACATATCCACATTTAATGGAGGGCTTCTACCAGTCAGAAGTTTGTCTTTTACATGGATT
 CCTTTATGCCATTTGCCGGTGAATGACTTTGAGATTGTCGACATTCTTAATCCAAGAACAACCCGGAC
 AAGTCGTTTTTAAAGTGGCATTATCAACTTTATCACTTCAGAGAAACGTGCCTGGAGAAGTGTGAAGAA
 TTTCTTTTGCAAAATAAATCCTCTATGGTCAGAATGCAGCAGTTAAGCAATGTGCACCAGGAAGCTTTGA
 TGAACCTGGAAAACTCAATACCGTTCGGCTGAGGAGCGAGAGGAGTTCAAGCAGTTTATGGATGACAT
 TCAGGAGCTGCAGCACCTGCTGAATGAAGAGTTCAGACAGAAAACGACACTGCTGCAGGAGGAATATGCC
 AAAATGAAATCCGATATTTAGAGAAAAACAAGCATTAAATGAACAAAAGTTGTCATTAGTTTCTTTGA
 AAGAAGTTGAAGACAATTTGAAAAGCAAATTTGGGACTCTCCAGAGAAGCTGAAGAATAAAGACAA
 GATGAAAGGCACCGTCCAGAAGCTCCGAGTGCAGGGAAAAAGTATGGAGCAGTATGATATCTATAGA
 GATTCTGTGGATTGCTTGCCCTTCTGTCAGCTGGAGGTGCAGTTGTATCAAAAAGAAATCACAGGACCTTG
 CAGATAATAGGGAGAACTAAGCAGTCTCTTAAAGGAGAGCTTGAACCTGGAGGACCAGATTGAAAGTGA
 TTCATCGGAACAAAGAACTGAAGACTGAAGAAAATTCTCTCATAAGAATGACGACTGTAAAGAAGGAG
 AAGCTCGCCACCGCGGATTCAAATCAACAAGAAGCAGGAGGATGTGAAACATTACAAGCAGGCCATGA
 TTGAAGACTGCAATAAAGTTCAAGAAAAGAGAGATGCTGTCTGTGAGCAAGTAACCACTGTTAATCAAGA
 AATCCACAAGATTAAATCTGCAATTCAACAAGTGAAGATACCAAGAAAAGGGAGATATTGAAGTCTCAG
 GAGATCTTTGTAACCTGAAAAGTGTCTGTGAGAGTACCATGAGGGCATCGAGAAGGTAGCGGAGGAGC
 GCAGCGCTAAACTGGAGGAGAAGACGGCAGAGCTGAAGAAGAGGATGGTCAGAAATGGTCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_023284
- Insert Size:** 1392 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: [NM_023284.3](#), [NP_075773.2](#)

RefSeq Size: 2405 bp

RefSeq ORF: 1392 bp

Locus ID: 66977

UniProt ID: [Q99P69](#)

Cytogenetics: 1 H2.3

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.[UniProtKB/Swiss-Prot Function]