

## Product datasheet for **RC225967**

### **NEDD1 (NM\_001135177) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	NEDD1 (NM_001135177) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NEDD1
Synonyms:	GCP-WD; TUBGCP7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC225967 representing NM\_001135177  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCAGGAAAACCTCAGATTTGCTTCATCAGGAGATGATATTAATAATATGGGATGCTTCATCTATGACAT  
 TGGTGGATAAATTCAACCCACACACATCACCACATGGAATCAGCTCAATATGTTGGAGCAGCAATAATAA  
 CTTTTAGTAACAGCATCTCCAGTGGCGACAAAATAGTTGTCTCAAGTTGCAAATGTAACCTGTTCCA  
 CTTTTAGAGCTTGCTGAAGGGCAAAAGCAGACATGTGTCAATTTAAATCTACATCTATGTATTTGGTAA  
 GCGGAGGCCATAAATAACTGTTAATATTTGGGATTTAAATCAAAAAGAGTTTCATCGATCTCTTAAGGA  
 TCATAAGATCAAGTAACTTGTAACATAACAATTGGAATGATTGCTACATTGCTTCTGGATCTCTTAGT  
 GGTGAAATTTTTACACAGTGAACCACTAATTTATCTAGTACTCCTTTGGCCATGGTAGTAACCACT  
 CTGTTCCGGCACTGAAGTACTCCTTGTTAAGAAATCACTACTGGGCAGTGTTCGGATAATGGAATAGT  
 AACTCTCTGGGATGTAATAGTCAGAGTCCATACCATAACTTTGACAGTGTACACAAAGCTCCAGCGTCA  
 GGATCTGTTTTCTCCTGTCAATGAATGCTCTTTGTAACCATAGGCTTGGATAAAAAGAATCATCTCT  
 ATGACACTTCAAGTAAGAAGCTAGTGAAAACCTTGTAGTGGCTGACACTCCTCTAACTGCGGTAGATTTTCA  
 GCCTGATGGAGCCACTTTGGCTATTGGATCTTCCCGGGGAAAATATATCAATATGATTTAAGAATGTTG  
 AAATCACCAGTTAAGACCATCAGTGCTCACAAGACATCTGTGCAGTGTATAGCATTTTCACTCCACTG  
 TTCTTACTAAGTCAAGTTTAAATAAAGGCTGTTCAAATAAGCCCAACAGTGAACAAACGAAGTGTAA  
 TGTGAATGCTGCTAGTGGAGGAGTTCAGAAATCCGGAATTGTGAGAGAAGCACCTGCCACGTCCATTGCC  
 ACAGTTCTACCACAACCTATGACATCAGCTATGGGAAAGGAACAGTTGCTGTTCAAGAAAAAGCAGGTT  
 TGCCCTCGAAGCATAAACACAGACACTTTATCTAAGGAAACAGACAGTGGAAAAATCAGGATTTCTCCAG  
 CTTTGATGATACTGGGAAAAGTAGTTTAGGTGACATGTTCTCACCTATCAGAGATGATGCTGTAGTTAAC  
 AAGGGAAGTGATGAGTCCATAGGCAAAGGAGATGGCTTTGACTTTCTACCGCAGTTGAACTCAGTGTTC  
 CTCCAAGAAAAATCCAGTAACTTCAAGTACTTCAAGTATTGCATTCTAGTCTCTTAATGTTTTTATGGG  
 ATCTCCAGGAAAGAGGAAAATGAAAACCGTGATCTAACAGCTGAGTCTAAGAAAATATATATGGGAAAA  
 CAGGAATCTAAGACTCCTTCAAACAGTTAGCAAAGTTGGTCACATCTGGTGTGAAAGTGGAAATCTAA  
 ATACCTCTCCATCATCTAACCAACAAGAAATTTGAGAAATTTGAAAAGCCAGAGAATGAAATGAAGC  
 CCAGTTGATATGTGAACCCCAATCAATGGATCCTCAACTCAAATCAAAGATAGCATCTTCTGTCCT  
 GCTGGAGTTGCCAGTTCCTCTCAGAAAAATAGCCGACAGCATTGGAAATAACCGGCAAAATGCACCAT  
 TGACTTCCATTCAAATTCGTTTTATTAGAACATGATACAGGAAACGTTGGATGACTTTAGAGAAGCATG  
 CCATAGGGACATTGTGAATTTGCAAGTGGAGATGATTAACAGTTTCATATGCAACTGAATGAAATGCAT  
 TCTTTGCTGGAAGATACTCAGTGAATGAAGTTTAGTGGCTGAAATTGAAAGACTACGAGAAGAAAAACA  
 AAAGATTACGGGCCACTTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC225967 representing NM\_001135177  
Red=Cloning site Green=Tags(s)

MQENLRFASSGDDIKIWDASSMTLVDFKPNHTSPHGISSICWSSNNFLVTASSSGDKIVSSCKCKPVP  
 LLELAEGQKQTCVNLNSTSMYLVSGLNNTVNIWDLKSKRVHRSLKDHKQVTCVTYNWNCYIASGSL  
 GEIILHSVTTNLSSTPFHGHSNQSVRHLKYSLFKKSLLGSVSDNGIVTLWDVNSQSPYHNFDSVHKAPAS  
 GICFSPVNE LLFVTIGLDKRIILYDTSSKLVKTLVADTPLTAVDFMPDGATLAIIGSSRGKIYQYDLRML  
 KSPVKTISAHKTSVQCI AFQYSTVLTKSSLNKGCSNKPTTVNKRSVNVNAASGGVQNSGIVREAPAT  
 SIA TVLPQPMTSAMGKGTAVVQEKAGLPRINTDTLSKETDSGKNQDFSSFDGTGKSLGDMFSPIRD  
 DAVVN KGSDESIGKGDGDFL PQLNSVFPKRNPVTSSTSVLHSSPLNVFMGSPGKEENENRDLT  
 AESKKIYMGK QESKDSFKLAKLVTSGAESGNLNTSPSSNQTRNSEKFEKPENEIEAQLICEPPING  
 SSTPNPKIASSVT AGVASSLSEKIADSIGNNRQNAPLTSIQIRFIQNMIQETLDDFREACHRDIV  
 NLQVEMIKQFHMQLNEMH SLLERYSVNEGLVAEIERLREENKRLRAHF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001135177

**ORF Size:** 1980 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_001135177.1](#), [NP\\_001128649.1](#)

**RefSeq Size:** 3738 bp

**RefSeq ORF:** 1716 bp

**Locus ID:** 121441

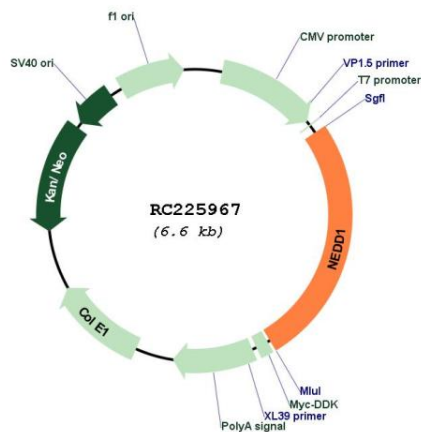
**UniProt ID:** [Q8NHV4](#)

**Cytogenetics:** 12q23.1

**MW:** 72 kDa

**Gene Summary:** Required for mitosis progression. Promotes the nucleation of microtubules from the spindle. [UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for RC225967