

## Product datasheet for **SC110960**

### **NEDD8 (NM\_006156) Human Untagged Clone**

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | NEDD8 (NM_006156) Human Untagged Clone  |
| Tag:                      | Tag Free  |
| Symbol:                   | NEDD8   |
| Synonyms:                 | NEDD-8  |
| Mammalian Cell Selection: | None  |
| Vector:                   | <u><a href="#">pCMV6-XL5</a></u>  |
| E. coli Selection:        | Ampicillin (100 ug/mL)  |
| Fully Sequenced ORF:      | <p>&gt;OriGene sequence for NM_006156 edited</p> <pre> GAATTCGGCACGAGGGGCCCTTGCAGGCAAGAGTGCTGGAGGGCGCAGCGGCGACCGGA GCGGTAGGAGCAGCAATTTATCCGTGTGCAGCCCAAACCTGGAAAGAAGATGCTAATTAA AGTGAAGACGCTGACCGAAAGGAGATTGAGATTGACATTGAACCTACAGACAAGGTGGA GCGAATCAAGGAGCGTGTGGAGGAGAAAGAGGAATCCCCCACACAGCAGAGGCTCAT CTACAGTGGCAAGCAGATGAATGATGAGAAGACAGCAGCTGATTACAAGATTTTAGGTGG TTCAGTCCTTCACCTGGTGTGGCTCTGAGAGGAGGAGGTGGTCTTAGGCAGTGATGGAC CCTCCATTTTACCTCTTACCCTGTCGCTCATAATGAGGCATCATATACCTCTCACTCT CTGGGACACCATAGCCACTGCCCTCCCTGGATGCCAGTAATGTATGTCTACTGGT GGAGACTGTGAGGATCCCAGGATTCAGTATTCTGGCCCAGAGGGCCCTTGCTGGCTACT GGGTGTTAGTTTGCAGTCTGTGTGCTTCCTCTCTTATGACTGTGTCCCTGGTTGTCAA TAAATATTTCTGGCCTCCTGGAA AAA AAACTCGAC </pre> |



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**5' Read Nucleotide Sequence:**

```
>OriGene 5' read for NM_006156 unedited
GGTTGTCAAATTTGTATACGACTCATATAGGCGGCCGCGNAATTCGCACGAGGGCCCTTG
CAGCAAGATGCTGGAGGGCGGCAGCGGCACCGGAGCGGTAGGAGCAGCAATTTATCCGT
GTGCAGCCCCAANACTGGAAAGAAGATGCTAATTAAGTGAAGACGCTGACCGGAAAGGA
GATTGAGATTGACATTGAACCTACAGACAAGGTGGAGCGAATCAAGGAGCGTGTGGAGGA
GAAAGAGGGAATCCCCCACACAGCAGAGGCTCATCTACAGTGGCAAGCAGATGAATGA
TGAGAAGACAGCAGCTGATTACAAGATTTTAGGTGGTTCAGTCCTTCACCTGGTGTGGC
TCTGAGAGGAGGAGGTGGTCTTAGGCAGTGATGGACCCTCCATTTTACCTCTTACCTG
TCGCTCATAATGAGGCATCATATATCCTCTCACTCTCTGGGACACCATAGCCACTGCCCC
CTCCCCTGGATGCCAGTAATGTATGTCTACTGGTGGGAGACTGTGAGGATCCCAGGATT
CAGTATTCCTGGCCAGAGGGCCCTTGCTGGCTACTGGGTGTTAGTTTGCAGTCTGTGT
GCTTCCCTCTTATGACTGTGTCCTGGTTGTCAATAAAATATTTCTGGCCTCCTGGA
AAAAAAAAAANNNNNAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAN
AAAAAAAAANAAAAAAAAANAAAAAAAAAAAAAAAAAAAAAAAAANANNANAAAAAAA
AAAAAAAAANNCCTCTCCTTTTTTTTTGTGGCGGGGTTAAATTTGTTTTTAAAAAAA
CCCGGGGGGCTTCTTTGACCCCCCAAGGTTTTTTTTGGGGCGGGAAGGTCCCTCC
GGGGCGCCCCATTTGTATTATAAN
```

**3' Read Nucleotide Sequence:**

```
>OriGene 3' read for NM_006156 unedited
TATCTTATTTTTAACCAGGNACACAGCTCATAAGAATAGGGGAAGCACACAGGACTGCA
AACTAACACCCAGTAGCCAGCAAGGGCCCTCTGGGCCAGGAATACTGAATCCTGGGATCC
TCACAGTCTCCCACAGTAGACATACATTACTGGGCATCCAGGGAGGGGCGAGTGGCTA
TGGTGTCCAGAGAGTGAGAGGATATATGATGCCTCATTATGAGCGACAGGGTAAAGAGG
TGAAATGGAGGGTCCATCACTGCCTAAGACCACCTCCTCCTCTCAGAGCCAACACCAGGT
GAAGGACTGAACCACCTAAAATCTTGAATCAGCTGCTGTCTTCTCATCATTATCTGCT
TGCCACTGTAGATGAGCCTCTGCTGTTGTGGGGGATTCCCTCTTCTCCTCCACACGCT
CCTTGATTCGCTCCACCTTGCTGTAGGTTCAATGTCCATCTCAATCTCCTTTCCGGTCA
GCGTCTTCACTTAATTACCATCCTCTTCCAGTTTGGGGCTGCACACGGATAAATTGCT
GCTCCTACCGTCCGGTCGCCGCTGCCGCCCTCAGCACTTGGTGCATAGGCCCCCTCAG
CCGAATTCGGGGCCCTATAATGAGCGTATTAATAAATCTGACGGGTCCCTAACCGAGC
CTGCTTATAGACCCTCACCGTACCAGCTACCGCCATTTGGGTAACGGGGGGGGG
TATACCACCTTTTGGAAATTCCTGATTTTGGGCCCAAAATTTCTTTGCTCCAGGG
GGGGAACTTTGGAATCCTGGGTACAACCCTCTCCCCCCTACTGGGTTTCGCATACCC
TTTCCCCTGGGATTCCGTGATCATCCCTATATTCCCCTCACAAATCCTTTATGTATTC
CGGCTCCCCCTTGGGTCTCCCGCTGGACTAAAGGGGGGCTCCTTTAACACCTGTT
TTCCCGCGTTCGTACATCCCCTTGGTATGAAACCTCTGGCCATGGCATAN
```

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_006156

**Insert Size:**

1870 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\\_006156.1](#), [NP\\_006147.1](#)

**RefSeq Size:** 605 bp

**RefSeq ORF:** 246 bp

**Locus ID:** 4738

**UniProt ID:** [Q15843](#)

**Cytogenetics:** 14q12

**Protein Families:** Druggable Genome

**Gene Summary:** Ubiquitin-like protein which plays an important role in cell cycle control and embryogenesis. Covalent attachment to its substrates requires prior activation by the E1 complex UBE1C-APPBP1 and linkage to the E2 enzyme UBE2M. Attachment of NEDD8 to cullins activates their associated E3 ubiquitin ligase activity, and thus promotes polyubiquitination and proteasomal degradation of cyclins and other regulatory proteins.[UniProtKB/Swiss-Prot Function]