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Product datasheet for SC310054

NEDD4 (NM_006154) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NEDD4 (NM_006154) Human Untagged Clone
Tag:	Tag Free
Symbol:	NEDD4
Synonyms:	NEDD4-1; RPF1
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene sequence for NM_006154 edited
CTCCCGCTTCTCCTCCTCCTCCTCCACAGTTGCCTGCCCTGGGCGGGGGCGAGCGCGTCC
GGTTTGCTGGAAGCGTTCGGAAATGGCAACTTGCGCGGTGGAGGTGTTCGGGCTCCTGGA
GGACGAGGAAAATTCACGAATTGTGAGAGTAAGAGTTATAGCCGGAATAGGCCTTGCCAA
GAAGGATATATTGGGAGCTAGTGATCCTTACGTGAGAGTGACGTTATATGACCCAATGAA
TGGAGTTCTTACAAGTGTGCAAACAAAAACCATTAAAAAGAGTTTGAATCCAAAGTGGAA
TGAAGAAATATTATTCAGAGTTCATCCTCAGCAGCACCGGCTTCTTTTTGAAGTGTTTGA
CGAAAACCGATTGACAAGAGATGATTTCCTAGGTCAAGTGGATGTTCCACTTTATCCATT
ACCGACAGAAAATCCAAGATTGGAGAGACCATATACATTTAAGGATTTTGTTCTTCATCC
AAGAAGTCACAAATCAAGAGTTAAAGGTTATCTGAGACTAAAAATGACTTATTTACCTAA
AACCAGTGGCTCAGAAGATGATAATGCAGAACAGGCTGAGGAATTAGAGCCTGGCTGGGT
TGTTTTGGACCAACCAGATGCTGCTTGCCATTTGCAGCAACAACAAGAACCTTCTCCTCT
ACCTCCAGGGTGGGAAGAGAGGCAGGATATCCTTGGAAGGACCTATTATGTAAACCATGA
ATCTAGAAGAACACAGTGGAAAAGACCAACCCCTCAGGACAACCTAACAGATGCTGAGAA
TGGCAACATTCAACTGCAAGCACAACGTGCATTTACCACCAGGCGGCAGATATCCGAGGA
AACAGAAAGTGTTGACAACCAAGAGTCTTCCGAGAACTGGGAAATTATAAGAGAAGATGA
AGCCACCATGTATAGCAGCCAGGCCTTCCCATCACCTCCACCGTCAAGTAACTTGGATGT
TCCAACTCATCTTGCAGAAGAATTGAATGCCAGACTCACCATTTTTGGAAATTCAGCCGT
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TTTTGAGGAACAACCTACACTTCCTGTGCTTTTGCCTACTTCATCTGGATTACCACCAGG
TTGGGAAGAAAAACAAGATGAAAGAGGAAGATCATATTATGTAGATCACAATTCCAGAAC
GACTACTTGGACAAAGCCCACTGTACAGGCCACAGTGGAGACCAGTCAGCTGACCTCAAG
CCAGAGTTCTGCAGGCCCTCAATCACAAGCCTCCACCAGTGATTCAGGCCAGCAGGTGAC
CCAGCCATCTGAAATTGAGCAAGGATTCCTTCCTAAAGGCTGGGAAGTCCGGCATGCACC
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ATTGAAAATTCCAGCCCATCTGAGAGGAAAGACATCACTTGATACTTCCAATGATCTAGG
GCCTTTACCTCCAGGATGGGAAGAGAGAACTCACACAGATGGAAGAATCTTCTACATAAA

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TCACAATATAAAAAGAACACAATGGGAAGATCCTCGGTTGGAGAATGTAGCAATAACTGG
ACCAGCAGTGCCCTACTCCAGGGATTACAAAAGAAAGTATGAGTTCTTCCGAAGAAAGTT
GAAGAAGCAGAATGACATTCCAAACAAATTTGAAATGAAACTTCGCCGAGCAACTGTTCT
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GTTGGGGTATAACATGATGAGTACTCATTAGCACCTGATAGAAATCTGAAATGTGACAGT
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AACCTCTCTGGATTCATATTTCTTCATCTGTCAAATGAGAGTAATCATGCCCACCCTCAT
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ATGGATCTTACCATCATAATTCATTTTCTTCATATCAGCAAAGTAATAGTAATGTGGGCC
AATGCATTTTGGAAATGTCCTCATTATGTAGAATGGAATGTGAAAATTATTTTTGTTAAA
ACAGGATTTTGCCACAATTATTTAAATATTATGTTTGTGAACTATCTAAGCATGAGAAAA
TACAAAGCTTTCTTTGTATCTGGCTGATACTCATTTGGATGATTCTGTGACTCATAGAAC
ATGATGTTAAATGAGACCAGACTCAACTGCCACCAGTCCCCAGCTGCAGACCTTCATCCC
CTTCATCTCCCACTAGGGGCTCGTGGTCTGGAAGAAACATGTATCAAGCAACACAGCCCC
TTATCCCAGATAGAAAAGTGTCTCAAATGCATTCTACTGCGGGACAGTCAGTAGGATCAT
TTTCATAAAGCAAGGACATCATATGTTTCTAGAAATTACAAGCATATAACTTTAGCCTAC
AATCTCTTATTAAAAATTTTTAACAAAATTGTATTACAAATGCATTTCATCAGAACTCAA
ATTTAAATGGTGTTTGTTTTGGGTTTTTATTTATAATGCTGAAGTTATTCCATATAAGTA
TCAAGTTAAACACAATTCATTTTGATTATAAACTATTTGACTTTTTAAAATCTTCTGACA
CAGTAAATATATATATCAAGATTGATGTATCAAAATTTATTGCACACTTTAAAGTGTAAA
ATCATTTTTTAAAATCTTGAATCCACAAATAAAGTTCTATTCTGATTTTAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_006154

Insert Size: 5900 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).

OTI Annotation: The ORF of this clone has been fully sequenced and found to contain 2 SNPs compared with NM_006154.1.

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_006154.1, NP_006145.1

RefSeq Size: 5749 bp

RefSeq ORF: 2703 bp

Locus ID: 4734

UniProt ID: P46934

Cytogenetics:	15q21.3
Protein Families:	Druggable Genome
Protein Pathways:	Endocytosis, Ubiquitin mediated proteolysis
Gene Summary:	This gene is the founding member of the NEDD4 family of HECT ubiquitin ligases that function in the ubiquitin proteasome system of protein degradation. The encoded protein contains an N-terminal calcium and phospholipid binding C2 domain followed by multiple tryptophan-rich WW domains and, a C-terminal HECT ubiquitin ligase catalytic domain. It plays critical role in the regulation of a number of membrane receptors, endocytic machinery components and the tumor suppressor PTEN. [provided by RefSeq, Jul 2016] Transcript Variant: This variant (1) differs in the 5' UTR, lacks a portion of the 5' coding region, and contains multiple alternate 5' coding exons, compared to variant 2. It represents use of an alternate promoter and initiates translation at an alternate start codon. The encoded isoform (1) is shorter and has a distinct N-terminus, compared to isoform 2. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.