

## Product datasheet for **SC326257**

### **NEDD4 2 (NEDD4L) (NM\_001144966) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	NEDD4 2 (NEDD4L) (NM_001144966) Human Untagged Clone
Tag:	Tag Free
Symbol:	NEDD4L
Synonyms:	hNEDD4-2; NEDD4-2; NEDD4.2; PVNH7; RSP5
Vector:	<u>pCMV6 series</u>



[View online »](#)

**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001144966, the custom clone sequence may differ by one or more nucleotides

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ATGGAGCGACCCTATACATTTAAGGACTTTCTCCTCAGACCAAGAAGTCATAAGTCTCGA
GTTAAGGGATTTTTGCGATTGAAATGGCCTATATGCCAAAAATGGAGGTCAAGATGAA
GAAAACAGTGACCAGAGGGATGACATGGAGCATGGATGGGAAGTTGTTGACTCAAATGAC
TCGGCTTCTCAGCACCAAGAGGAACTTCTCCTCCTCCTCTGCCTCCCGGGTGGGAAGAA
AAAGTGGACAATTTAGGCCGAACCTTACTATGTCAACCACAACAACCCGACCCTCAGTGG
CACAGACCAAGCCTGATGGACGTGCTCGGAGTCGGACAATAACATCAGACAGATCAAC
CAGGAGGCAGCACACCCGGCGCTTCCGCTCCCGCAGGCACATCAGCGAAGACTTGGAGCCC
GAGCCCTCGGAGGGCGGGGATGTCCCGAGCCTTGGGAGACCATTTAGAGGAAGTGAAT
ATCGCTGGAGACTCTCTCGGTCTGGCTCTGCCCCACCACCGCCTCCCCAGGATCTCGG
ACCAGCCCTCAGGAGCTGTCAGAGGAACTAAGCAGAAGGCTTCAGATCACTCCAGACTCC
AATGGGGAACAGTTCAGCTCTTTGATTCAAAGAGAACCCTCCTCAAGTTGAGGTATGC
AGTGTACCGACGCAGTTCAGAACAGGGCCATCTACCACCGCCAGTCCCCAGCTGGG
AGAGCGCTTTCATCAACTGTCACGGGTGGTGGGAACCAACGCCATCAGTGGCCTATGTA
CATACCACGCCGGTCTGCCTTCAGGCTGGGAAGAAAGAAAAGATGCTAAGGGGGCCACA
TACTATGTCAATCATAACAATCGAACCAACTTGGACTCGACCTATCATGCAGCTTGCA
GAAGATGGTGCCTCCGGATCAGCCACAACAGTAACAACCATCTAATCGAGCCTCAGATC
CGCCGGCCTCGTAGCCTCAGCTCGCCAACAGTAACTTTATCTGCCCGCTGGAGGGTGCC
AAGGACTCACCCGTACGTGGGCTGTGAAAGACACCCTTTCCAACCCACAGTCCCCACAG
CCATCACCTTACAACCTCCCCAAACCACAACAAAAGTACACAGAGCTTCTTGCCACCC
GGCTGGGAAATGAGGATAGCCCAACGGCCGGCCCTTCTTATTGATCATAACACAAAG
ACTACAACCTGGGAAGATCCAGTTTGAATTTCCAGTACATATGCGGTCAAAGACATCT
TTAAACCCCAATGACCTTGGCCCTTCTCCTCGGCTGGGAAGAAAGAATTCATTGGAT
GGCCGAACGTTTTATATTGATCATAATAGCAAAATTAAGTGGGAAGACCCCAAGACTG
CAGAACCAGCTATTACTGGTCCGGCTGTCCCTTACTCCAGAGAATTTAAGCAGAATAT
GACTACTTCAGGAAGAAATTAAGAAACCTGCTGATATCCCCAATAGGTTTGAAATGAAA
CTTCACAGAAATAACATATTTGAAGAGTCTATCGGAGAATTATGTCCGTGAAAAGACCA
GATGTCCTAAAAGCTAGACTGTGGATTGAGTTTGAATCAGAGAAAGTCTTGACTATGGG
GGTGTGGCCAGAGAATGGTTCTTCTTACTGTCCAAGAGATGTTCAACCCCTACTACGGC
CTCTTTGAGTACTCTGCCACGGACAACACACCCTTCCAGATCAACCCTAATTCAGGCCTC
TGTAATGAGGATCATTTGCCTACTTCACTTTTATTGGAAGAGTTGCTGGTCTGGCCGTA
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AAGCAGATAACCCCTGAATGACATGGAATCTGTGGATAGTGAATATTACAACCTTTTGAAA
TGGATCCTGGAGAATGACCCTACTGAGCTGGACCTCATGTTCTGCATAGACGAAGAAAAC
TTTGGACAGACATATCAAGTGGATTTGAAGCCCAATGGGTGAGAAATAATGGTCACAAAT
GAAAACAAAAGGGAATATATCGACTTAGTCATCCAGTGGAGATTTGTGAACAGGGTCCAG
AAGCAGATGAACGCTTCTTGGAGGGATTACAGAACTACTTCCATTGATTTGATTTAA
ATTTTTGATGAAAATGAGCTGGAGTTGCTCATGTGCGGCCTCGGTGATGGATGTGAAT
GACTGGAGACAGCATTCTATTTACAAGAACGGCTACTGCCAAAACCCCGTCATTTCAG
TGGTTCTGGAAGGCTGTGCTACTCATGGACGCCGAAAAGCGTATCCGGTTACTGCAGTTT
GTCACAGGGACATCGCGAGTACCTATGAATGGATTTGCCGAACCTTATGGTTCCAATGGT
CCTCAGCTGTTTACAATAGAGCAATGGGGCAGTCTGAGAAAACGCCAGAGCTCACACA
TGCTTTAATCGCCTTGACTTACCTCCATATGAAACCTTTGAAGATTTACGAGAGAAACT
CTCATGGCCGTGGAAAATGCTCAAGGATTTGAAGGGTGGAT

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**Restriction Sites:** Please inquire

**ACCN:** NM\_001144966

**Insert Size:** 8313 bp

<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_001144966.1</a></u> , <u><a href="#">NP_001138438.1</a></u>
<b>RefSeq Size:</b>	8313 bp
<b>RefSeq ORF:</b>	8313 bp
<b>Locus ID:</b>	23327
<b>UniProt ID:</b>	<u><a href="#">Q96PU5</a></u>
<b>Cytogenetics:</b>	18q21.31
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Endocytosis, Ubiquitin mediated proteolysis

**Gene Summary:**

This gene encodes a member of the Nedd4 family of HECT domain E3 ubiquitin ligases. HECT domain E3 ubiquitin ligases transfer ubiquitin from E2 ubiquitin-conjugating enzymes to protein substrates, thus targeting specific proteins for lysosomal degradation. The encoded protein mediates the ubiquitination of multiple target substrates and plays a critical role in epithelial sodium transport by regulating the cell surface expression of the epithelial sodium channel, ENaC. Single nucleotide polymorphisms in this gene may be associated with essential hypertension. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Mar 2012]

Transcript Variant: This variant (a) uses an alternate first exon, compared to variant j, which results in the use of a downstream in-frame start codon. The encoded protein (isoform 2) has a shorter N-terminus that lacks a C2 domain, compared to isoform 1. Variant a is also known as NEDD4-2A. Variants a, b, and f encode the same 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.