

Product datasheet for **SC326248**

NEDD4 2 (NEDD4L) (NM_001144971) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NEDD4 2 (NEDD4L) (NM_001144971) Human Untagged Clone
Tag:	Tag Free
Symbol:	NEDD4 2
Synonyms:	hNEDD4-2; NEDD4-2; NEDD4.2; PVNH7; RSP5
Vector:	<u>pCMV6 series</u>



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001144971, the custom clone sequence may differ by one or more nucleotides

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ATGGAGCGACCCTATACATTTAAGGACTTTCTCCTCAGACCAAGAAGTCATAAGTCTCGA
GTTAAGGGATTTTTGCGATTGAAAATGGCCTATATGCCAAAAATGGAGGTCAAGATGAA
GAAAACAGTGACCAGAGGGATGACATGGAGCATGGATGGGAAGTTGTTGACTCAAATGAC
TCGGCTTCTCAGCACCAAGAGGAACTTCTCCTCCTCCTCTGCCTCCCGGGTGGGAAGAA
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CAGGAGGCAGCACACCGGCGCTTCCGCTCCCGCAGGCACATCAGCGAAGACTTGGAGCCC
GAGCCCTCGGAGGGCGGGGATGTCCCGAGCCTTGGGAGACCATTTAGAGGAAGTGAAT
ATCGCTGGAGACTCTCTCGGTCTGGCTCTGCCCCACCACCGCCTCCCCAGGATCTCGG
ACCAGCCCTCAGGAGCTGTCAGAGGAACTAAGCAGAAGGCTTCAGATCACTCCAGACTCC
AATGGGGAACAGTTCAGCTCTTTGATTCAAAGAGAACCCTCTCAAGTTGAGGTATGC
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GAAGATGGTGCCTCCGGATCAGCCACAACAGTAACAACCATCTAATCGAGCCTCAGATC
CGCCGGCCTCGTAGCCTCAGCTCGCCAACAGTAACTTTATCTGCCCGCTGGAGGGTGCC
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CCATCACCTTACAACCTCCCCAAACCACAACACAAAGTCAACAGAGCTTCTTGGCACCC
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GACTACTTCAGGAAGAAATTAAGAAACCTGCTGATATCCCCAATAGGTTTGAATGAAA
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CTCTTTGAGTACTCTGCCACGGACAACACACCCTTCCAGATCAACCCTAATTCAGGCCTC
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TGGATCCTGGAGAATGACCTACTGAGCTGGACCTCATGTTCTGCATAGACGAAGAAAAC
TTTGGACAGACATATCAAGTGGATTTGAAGCCCAATGGGTGAGAAATAATGGTCACAAAT
GAAAACAAAAGGGAAATATCGACTTAGTCATCCAGTGGAGATTTGTGAACAGGGTCCAG
AAGCAGATGAACGCCTTCTTGGAGGGATTACAGAACTACTTCTTATTGATTTGATTTAA
ATTTTTGATGAAAATGAGCTGGAGTTGCTCATGTGCGGCCTCGGTGATGTGGATGTAAT
GACTGGAGACAGCATTCTATTTACAAGAACGGCTACTGCCAAACCAACCCCGTCATTCAG
TGGTTCTGGAAGGCTGTGCTACTCATGGACGCCGAAAAGCGTATCCGGTTACTGCAGTTT
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CCTCAGCTGTTTACAATAGAGCAATGGGGCAGTCTGAGAAAACGCCAGAGCTCACACA
TGCTTTAATCGCCTTGACTTACCTCCATATGAAACCTTTGAAGATTTACGAGAGAAACT
CTCATGGCCGTGGAAAATGCTCAAGGATTTGAAGGGTGGAT

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Restriction Sites: Please inquire
ACCN: NM_001144971

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:	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.
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:	<ol style="list-style-type: none"> 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:	<u>NM_001144971.1</u> , <u>NP_001138443.1</u>
RefSeq Size:	8406 bp
RefSeq ORF:	2505 bp
Locus ID:	23327
UniProt ID:	<u>Q96PU5</u>
Cytogenetics:	18q21.31
Protein Families:	Druggable Genome
Protein Pathways:	Endocytosis, Ubiquitin mediated proteolysis
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (k) uses two alternate exons in its 5' end and lacks a downstream in-frame exon, compared to variant j. These differences result in the use of a downstream in-frame start codon and a protein (isoform 6) with a shorter N-terminus, compared to isoform 1. Variants c and k encode the same isoform (6).</p>