

Product datasheet for **SC102592**

NEDD4 2 (NEDD4L) (NM_015277) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NEDD4 2 (NEDD4L) (NM_015277) Human Untagged Clone
Tag:	Tag Free
Symbol:	NEDD4 2
Synonyms:	hNEDD4-2; NEDD4-2; NEDD4.2; PVNH7; RSP5
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC102592 sequence for NM_015277 edited (data generated by NextGen Sequencing)

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ATGGCGACCGGGCTCGGGGAGCCGGTCTATGGACTTTCGAAGACGAGGGAGAGTCCCCT
ATTCTCAGAGTAAAAGTTGTTTCTGGAATTGATCTCGCCAAAAAGGACATCTTTGGAGCC
AGTGATCCGTATGTGAACTTTCATTGTACGTAGCGGATGAGAATAGAGAACTTGCTTTG
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AAGACTACAACCTGGGAAGATCCACGTTTGAAATTTCCAGTACATATGCCGTCAAAGACA
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 GATGGCCGAACGTTTTATATTGATCATAATAGCAAAATTAAGTCACTGAGTGGGAAGACCAAGA
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 ACATGCTTTAATCGCCTTGACTTACCTCCATATGAAACCTTTGAAGATTTACGAGAGAAA
 CTCTCATGGCCGTGAAAATGCTCAAGGATTTGAAGGGTGGATTAA

Clone variation with respect to NM_015277.5

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_015277 unedited
 TTCGGCACCAGGGAGAACCGGCGTCCGCGCCGAGCAGCCGCTGGGAGCGCCTCAGA
 CCCCAGCGGGGGCGCGGCTCCATGGCGACCGGCTCGGGAGCCGGTCTATGGACTTTC
 CGAAGACGAGGGAGAGTCCCGTATTCTCAGAGTAAAAGTTGTTTCTGGAATTGATCTCGC
 CAAAAAGGACATCTTTGGAGCCAGTATCCGTATGTGAACTTTTATTGTACGTAGCGGA
 TGAGAATAGAGAACTTGCTTTGGTCCAGACAAAAACAATTAAGAAAGACTGAACCCAAA
 ATGGAATGAAGAATTTTATTTAGGGTAAACCCATCTAATCACAGACTCCTATTTGAAGT
 ATTTGACGAAAATAGACTGACACGAGACGACTTCTGGGCCAGGTGGACGTGCCCTTAG
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 CAGACCAAGAAGTCATAAGTCTCGAGTTAAGGGATTTTGGGATTGAAAATGGCCTATAT
 GCCAAAAATGGAGGTCAAGATGAAGAAAACAGTGACCAGAGGGATGACATGGAGCATGG
 ATGGGAAGTTGTTGACTCAAATGACTCGGCTTCTCAGCACCAAGAGGAATTCCTCCTCC
 TTCTCTGCCTCCCGGGTGGGAAGAAAAGTGGACAATNTANGCCGAATTAATATGTCAA
 CCACAACACCGGACCACTCAGTGGCACAGACCAAGCCTGATGGACGTGT

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_015277 unedited NNTTTTACTCTGAACCGCGGCCGCATCTAAGATCGGTTTTTTTTTTTTTTTTTTAGTTA CATAGCATCTAAGCTTTTCTGATCACTACCAGGTAATTTTCAACCAATAAGAAAAAGGAA CCAACACTCAGCTCTGTAGAAATCTACCTTCTTTTAGAAACCTCAGGCCTCTGCACCCCT TTAGACAACTCATTTCCAACCACAACCTTCCATGGCTTCTCACATGCCAGCCAGGGCAGG GTAAAAACGGCAATTCCCTTACACCGAAAGTCCTTTTTATGGAACAAACAGACCTTCCCA AACCAACTTTTTTCGGCTATTGATGACTCGCATGAGATCAAATCTCTAGAGAACCCTG CACCGCCCCCACAGGGCGTGGGATGTCTCACGATCACAGAAGCGTCCCTGGCCCCCCT TCTTCCACTCCGACTTTACGTTTCTCCCCCTAATCCCCCGCCCGCCCGCCCCCGGCC CCGCCCCCACATACCCCTCTTCCCCCGCCCCCCCCCTCCCCCTCCCGCCCCCCCC CCCCCCCCCCTCCCGCCCCCTCCCTCCCCCCCCCTTGCCCTCCCCCTCACACCGCCCC CCACGTTCCCTCCCGCCCCACCGTCTCTCCCCACCCCCCCACCGCTCACCCGCATCT ACCCTCTCTCACCTCTATCCCCGTTCTCTAGCCCCCGACAGCTCTCTATGCTCT TTTTGGCCCCCTCGCGCCACGCGCTCCACCACCAACCCGCACCCACTTGCCGACTG CCACCAACATCTCCCCACCTGACGCCACCCTTCAAAGCCCCGCCCTCCCCCTCGAC CCACGCCGCTCCGCGCCTCCCTCTCCNCCCCTCCACACCTCAACCCCCCCCCACCCC CCTACCCCGCCCCACCGTCCCTCACGCCGCCACCCACTCCCTCGCTCTCTTCTCACC CGCTCTCCCCACCCCT
Restriction Sites:	NotI-NotI
ACCN:	NM_015277
Insert Size:	5000 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:	<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_015277.2</u> , <u>NP_056092.2</u>
RefSeq Size:	4871 bp
RefSeq ORF:	2868 bp
Locus ID:	23327
UniProt ID:	<u>Q96PU5</u>
Cytogenetics:	18q21.31
Domains:	C2, HECT, WW

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 (d) lacks an in-frame exon, compared to variant j, resulting in a shorter protein (isoform 3), compared to isoform 1. Variant d is also known as NEDD4-2C6 and NEDL3. 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.</p>