

## Product datasheet for **RC226659**

### **NEDD4 2 (NEDD4L) (NM\_001144971) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	NEDD4 2 (NEDD4L) (NM_001144971) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NEDD4 2
Synonyms:	hNEDD4-2; NEDD4-2; NEDD4.2; PVNH7; RSP5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide  
Sequence:**

>RC226659 representing NM\_001144971  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGCGACCCTATACATTTAAGGACTTCTCCTCAGACCAAGAAGTCATAAGTCTCGAGTTAAGGGAT  
 TTTTGCATTGAAAATGGCCTATATGCCAAAAATGGAGGTCAAGATGAAGAAAACAGTGACCAGAGGGA  
 TGACATGGAGCATGGATGGGAAGTTGTTGACTCAAATGACTCGGCTTCTCAGCACCAAGAGGAATTCCT  
 CCTCCTCCTGCCTCCCGGGTGGGAAGAAAAGTGGACAATTTAGGCCGAATTAATATGTCAACCACA  
 ACAACCGGACCACTCAGTGGCACAGACCAAGCCTGATGGACGTGTCTCGGAGTCGGACAATAACATCAG  
 ACAGATCAACCAGGAGGCAGCACACCGGCGCTTCCGCTCCCGCAGGCACATCAGCGAAGACTTGGAGCCC  
 GAGCCCTCGGAGGGCGGGATGTCCCGAGCCTTGGGAGACCATTCAGAGGAAGTGAATATCGCTGGAG  
 ACTCTCTCGGTCTGGCTCTGCCCCACCACCGGCTCCCGAGGATCTCGGACCAGCCCTCAGGAGCTGTC  
 AGAGGAACATAAGCAGAAGGCTTCAGATCACTCCAGACTCCAATGGGGAACAGTTCAGCTCTTTGATTCAA  
 AGAGAACCCTCCTCAAGTTGAGGTTCATGCAAGTGTACCAGCAGCAGTTGCAAGAACAGGGCCATCTACCAC  
 CGCCATCAGTGGCCTATGTACATACCACGCCGGTCTGCCTTCAGGCTGGGAAGAAAAGAAAAGATGCTAA  
 GGGGCGCACATACTATGTCAATCATAAACAATCGAACCAACTTGGACTCGACCTATCATGCAGCTTGCA  
 GAAGATGGTGCCTCCGGATCAGCCACAACAGTAAACAACCATCTAATCGAGCCTCAGATCCGCCGGCCCTC  
 GTAGCCTCAGCTCGCAACAGTAACTTTATCTGCCCGCTGGAGGGTGCCAAGGACTCACCCGTACGTGC  
 GGCTGTGAAAGACACCCTTTCCAACCCACAGTCCACAGCCATCACCTTACAACCCCCAAACCACAA  
 CACAAAGTCACACAGAGCTTCTTCCACCCGGCTGGGAAATGAGGATAGCGCCAAACGGCCGGCCCTTCT  
 TCATTGATCATAACACAAAGACTACAACCTGGGAAGATCCACGTTTGAATTTCCAGTACATATCGGGTC  
 AAAGACATCTTTAAACCCAATGACCTTGGCCCTTCTCCTCGCTGGGAAGAAAAGAAATTCAGTGGAT  
 GGCCGAACGTTTTATATTGATCATAATAGCAAAATTAAGTCAAGTGGGAAGACCCCAAGACTGCAGAACCAG  
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 AAAGAACCTGTGATATCCCAATAGGTTTGAATGAAACTTCACAGAAATAACATATTTGAAGAGTCC  
 TATCGGAGAAATATGTCGTGAAAAGACCAGATGTCTAAAAGCTAGACTGTGGATTGAGTTTGAATCAG  
 AGAAAGGTCTTGACTATGGGGTGTGGCCAGAGAAATGGTCTTCTTACTGTCCAAGAGATGTTCAACCC  
 CTACTACGGCCTCTTTGAGTACTCTGCCACGGACAACACACCCTCAGATCAACCCTAATTCAGGCCTC  
 TGTAAATGAGGATCATTTGCTACTTCACTTTTATTGGAAGAGTTGCTGGTCTGGCCGATTTTCATGGGA  
 AGCTCTTAGATGGTTTCTCATTAGACCATTTACAAGATGATGTTGGGAAGCAGATAACCCTGAATGA  
 CATGGAATCTGTGGATAGTGAATATTACAACCTTTGAAATGGATCCTGGAGAATGACCCTACTGAGCTG  
 GACCTCATGTTCTGCATAGACGAAGAAAACCTTTGGACAGACATATCAAGTGGATTTGAAGCCCAATGGGT  
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 ATTTTTGATGAAAATGAGCTGGAGTTGCTCATGTGCGGCCTCGGTGATGTGGATGTAATGACTGGAGAC  
 AGCATTCTATTTACAAGAACGGCTACTGCCAAACCCCGTCATTAGTGGTTCTGGAAGGCTGTGCT  
 ACTCATGGACGCCGAAAAGCGTATCCGGTTACTGCAGTTTGTACAGGGACATCGCGAGTACCTATGAAT  
 GGATTTGCCGAACCTTATGGTTCCAATGGTCTCAGCTGTTACAATAGAGCAATGGGGCAGTCTGAGA  
 AACTGCCAGAGCTCACACATGCTTTAATCGCCTTGACTTACCTCCATATGAAACCTTTGAAGATTTACG  
 AGAGAACTTCTCATGGCCGTGGAAAATGCTCAAGGATTTGAAGGGTGGAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC226659 representing NM\_001144971  
 Red=Cloning site Green=Tags(s)

MERP YTFKDFLLRPRSHKSRVKGFLRLK MAYMPKNGGQDEENS DQRDDMEHGWEV VDSNDSASQHQEELP  
 PPPLPGWEEKVDNLGR TYVNHNNRTTQWHRPSLMDV SSES DNNIRQINQEAAHRRFRSRRHISEDLEP  
 EPSEGGDVPEPWETISEEVNIAGDSLGLALPPPASP GSRTSPQELSEELSRRLQITPDSNGEQFSSLIQ  
 REPSSRLRSCSVTDAVAEQGHLPPPSVAYVHTTPGLPSGWEERKDAKGR TYVNHNNRTTTWTRPIMQLA  
 EDGASGSATNSNNHLIEPQIRRPRLSSPTVTL SAPLEGAKDSPVRRAVKDTLSNPQSPQSPYNSPKPQ  
 HKVTQSF LPPGWEMRIAPNGRPFIDHNTKTTTWEDPRLKFPVHMRSKTSLNPNDLGPLPGWEERIHLD  
 GRTFYIDHNSKITQWEDPRLQNPAITGPAVPYSREFKQKYDYFRKLLKKPADIPNRFEMKLHRNNIFEES  
 YRRIMSVKRPDVLKARLWIEFESEKGLDYGGVAREWFFLLSKEMFN PYYGLFEYSATDNYTLQINPNSGL  
 CNEDHLSYFTF IGRVAGLAVFHGKLLDGGFFIRPFYKMLGKQITLNDMESVDSEYYNSLKWILENDPTEL  
 DLMFCIDEENFGQTYQVDLKPNGSEIMVTNENKREYIDLVIQWRFVNRVQKQMNAFLEGFTELLPIDLIK  
 IFDENELELLMCGLGDVDVNDWRQHSIYKNGYCPNHPVIQWFKAVLLMDAEKRIRLLQFVTGTSRVPMN  
 GFAELYGSNGPQLFTIEQWGSPEKLPRAHTCFNRDLPPYETFEDLREKLLMAVENAQGFEGVD

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI



**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\\_001144971.2](#)

**RefSeq ORF:** 2505 bp

**Locus ID:** 23327

**UniProt ID:** [Q96PU5](#)

**Cytogenetics:** 18q21.31

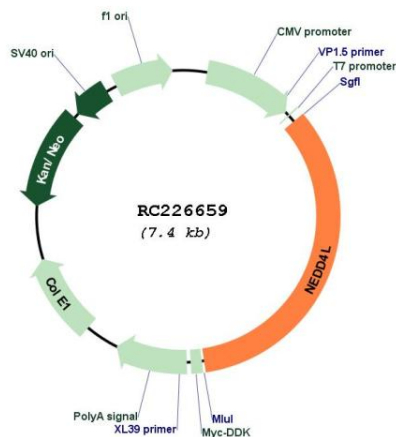
**Protein Families:** Druggable Genome

**Protein Pathways:** Endocytosis, Ubiquitin mediated proteolysis

**MW:** 96.1 kDa

**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]

### Product images:



Circular map for RC226659