

Product datasheet for **RG226645**

NEDD4 2 (NEDD4L) (NM_001144969) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | NEDD4 2 (NEDD4L) (NM_001144969) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | NEDD4 2 |
| Synonyms: | hNEDD4-2; NEDD4-2; NEDD4.2; PVNH7; RSP5 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



[View online »](#)

ORF Nucleotide Sequence:

>RG226645 representing NM_001144969
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGACGCTCTCGCATTGAGCAGGGAGAGTCCCGTATTCTCAGAGTAAAAGTTGTTTCTGGAATTGATC
 TCGCCAAAAAGGACATCTTTGGAGCCAGTGATCCGTATGTGAAACTTTCATTGTACGTAGCGGATGAGAA
 TAGAGAATTGCTTTGGTCCAGACAAAAACAATAAAAAGACACTGAACCCAAAAATGGAATGAAGAATTT
 TATTTACAGGTAACCCATCTAATCACAGACTCCTATTTGAAGTATTTGACGAAAAATAGACTGACACGAG
 ACGACTTCTGGGCCAGGTGGACGTGCCCTTAGTCACCTCCGACAGAAGATCCAACCTGGAGCGACC
 CTATACATTTAAGGACTTCTCCTCAGACCAAGAAGTCATAAGTCTCGAGTTAAGGGATTTTTCGATTG
 AAAATGGCCTATATGCCAAAAATGGAGGTCAAGATGAAGAAAACAGTGACCAGAGGGATGACATGGAGC
 ATGGATGGGAAGTTGTTGACTCAAATGACTCGGCTTCTCAGCACCAAGAGGAACCTCCTCCTCCTCCT
 GCCTCCCGGGTGGGAAGAAAAAGTGGACAATTTAGGCCGAACCTACTATGTCAACCACAACAACCGGACC
 ACTCAGTGGCACAGACCAAGCCTGATGGACGTGTCTCGGAGTCCGACAATAACATCAGACAGATCAACC
 AGGAGGCAGCACACCGGCGCTTCCGCTCCCGCAGGCACATCAGCGAAGACTTGGAGCCCGAGCCCTCGGA
 GGGCGGGGATGTCCCGAGCCTTGGGAGACCATTTAGAGGAAGTGAATATCGCTGGAGACTCTCTCGGT
 CTGGCTGTGCCCCACCACCGCCTCCCGAGGATCTCGGACCAGCCCTCAGGAGCTGTGAGGAACTAA
 GCAGAAGGCTTCAGATCACTCCAGACTCCAATGGGGAACAGTTCAGCTCTTTGATTCAAAGAGAACCCTC
 CTCAGGTTGAGGTATGCAGTGTACCCGACGAGTTCAGAACAGGGCCATCTACCACCGCCATCAGTG
 GCCTATGTACATACCACGCCGGTCTGCCTCAGGCTGGGAAGAAAAGAAAAGTCTAAGGGCGGCACAT
 ACTATGTCAATCATAACAATCGAACCAACTTGGACTCGACTATCATGCAGCTTGCAGAAGATGGTGC
 GTCGGGATCAGCCACAAACAGTAACAACCTCTAATCGAGCCTCAGATCCGCCGGCCTCGTAGCCTCAGC
 TCGCCAACAGTAACTTTATCTGCCCGCTGGAGGGTGCCAAGGACTCACCCGTACGTGCGGCTGTGAAAG
 ACACCTTTTCAACCCACAGTCCCACAGCCATCACCTTACAACCTCCCCAAACCACAACACAAAGTCAC
 ACAGAGCTTCTTGCCACCCGGCTGGGAAATGAGGATAGCGCAAACGGCCGGCCTTCTTATTGATCAT
 AACACAAAGACTACAACCTGGGAAGATCCACGTTTGAATTTCCAGTACATATGCGGTCAAAGACATCTT
 TAAACCCCAATGACCTTGGCCCCCTTCTCCTGGCTGGGAAGAAAGAATTCAGTTGGATGGCCGAACGTT
 TTATATTGATCATAATAGCAAAATTAAGCAGAAATATGACTACTTCAGGAAGAAATTAAGAAACCTG
 CCGGCTGTCCCTACTCCAGAGAATTTAAGCAGAAATATGACTACTTCAGGAAGAAATTAAGAAACCTG
 CTGATATCCCAATAGGTTTGAATGAAACTTCACAGAAATAACATATTTGAAGAGTCTATCGGAGAAT
 TATGTCCGTGAAAAGACCAGATGTCCTAAAAGCTAGACTGTGGATTGAGTTTGAATCAGAGAAAAGTCTT
 GACTATGGGGGTGTGGCCAGAGAATGGTCTTCTTACTGTCCAAAGAGATGTTCAACCCCTACTACGGCC
 TCTTTGAGTACTCTGCCACGGACAACACTACACCTTCAGATCAACCCCTAATCAGGCCTCTGTAATGAGGA
 TCATTTGCTCACTTCACTTTTATTGGAAGAGTTGCTGGTCTGGCCGATTTTCATGGGAAGCTCTTAGAT
 GGTTTCTTATTAGACCATTTTACAAGATGATGTTGGGAAAGCAGATAACCCTGAATGACATGGAATCTG
 TGGATAGTGAATATTACAACCTTTGAAATGGATCCTGGAGAATGACCCTACTGAGCTGGACCTCATGTT
 CTGCATAGACGAAGAAAACCTTTGGACAGACATATCAAGTGGATTTGAAGCCCAATGGGTGAGAAATATG
 GTCACAAATGAAAACAAAAGGGAATATATCGACTTAGTCATCCAGTGGAGATTTGTGAACAGGGTCCAGA
 AGCAGATGAACGCCTTCTTGGAGGGATTACAGAACTACTTCTATTGATTTGATTAATAATTTTATGATGA
 AAATGAGCTGGAGTTGCTCATGTGCGGCCTCGGTGATGTGGATGTGAATGACTGGAGACAGCATTCTATT
 TACAAGAACGGCTACTGCCAAACACCCCGTCAATCAGTGGTCTGGAAGGCTGTGCTACTCATGGACG
 CCGAAAAGCGTATCCGGTACTGCAGTTTGTACAGGGACATCGCGAGTACCTATGAATGGATTTGCCGA
 ACTTTATGGTTCCAATGGTCTCAGCTGTTTACAATAGAGCAATGGGCAGTCTGAGAACTGCCCAGA
 GCTCACACATGCTTAAATCGCCTGACTTACCTCCATATGAAACCTTTGAAGATTTACGAGAGAACTTC
 TCATGGCCGTGAAAATGCTCAAGGATTTGAAGGGGTGGAT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG226645 representing NM_001144969
 Red=Cloning site Green=Tags(s)

MRRLAFEQGESRILRVKVVSGIDLAKKIDIFGASDPYVKLSLYVADENRELALVQTKTIKKTLNPKWNEEF
 YFRVNPNSNHRLLEFVFDENRLTRDDFLGQVDVPLSHLPTEDPTMERPYTFKDFLLRPRSHKSRVKGFLRL
 KMAYMPKNGGQDEENSQDRDDMEHGWEVVDSDNSASQHQEELPPPPLPGWEEKVDNLGRITYYVHNHNR
 TQWHRPSLMDVSESDNNIRQINQEAHRRFRSRRHISEDLEPEPSEGGDVPEPWETISEEVNIAGDSL
 LALPPPPASPGSRTSPQELSEELSRRLQITPDSNGEQFSSLIQREPSSRLRSCSVTDAVAEQGHLPPPSV
 AYVHTTGLPSGWEERKDAKGRITYYVHNHNRRTTWTWPIMQLAEDGASGSATNSNNHLIEPQIRRPRLS
 SPTVTLSAPLEGAKDSPVRAVKDTLSNPQSPQSPYNSPKPQHKVTSFLLPPGWEMRIAPNGRPFIDH
 NTKTTTWEDPRLKFPVHMRSKTSLNPNDLGPLPGWEERIHLDGRTFYIDHNSKITQWEDPRLQNPATG
 PAVPYSREFKQKYDYFRKKLKKPADIPNRFEMKLHRNNIFEESYRRIMSVKRPDVLKARLWIEFESEKGL
 DYGGVAREWFFLLSKEMFNYYGLFEYSATDNYTLQINPNSGLCNEDHLSYFTF IGRVAGLAVFHGKLLD
 GFFIRPFYKMLGKQITLNDMESVDSEYNSLKWILENDPTELDLMFCIDEENFGQTYQVDLKPNGSEIM
 VTNENKREYIDLVIQWRFVNRVQKQMAFLEGFTELLPIDLIKIFDENELELLMCGLDGDVDVNDWRQHSI
 YKNGYCPNHPVIQWFKAVLLMDAEKRIRLLQFVTGTSRVPMNGFAELYGSNGPQLFTIEQWGSPEKLP
 AHTCFNRLDLPPYETFEDLREKLLMAVENAQGFEGVD

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

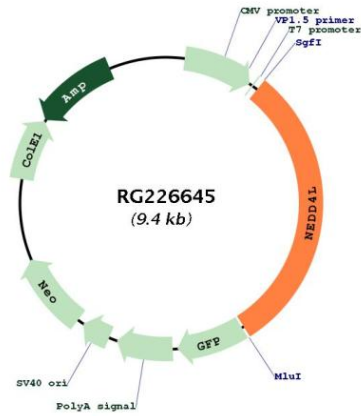


ACCN: NM_001144969

ORF Size: 2841 bp

| | |
|-------------------------------|---|
| OTI Disclaimer: | The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info |
| OTI Annotation: | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene. |
| 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: | NM_001144969.2 |
| RefSeq Size: | 8318 bp |
| RefSeq ORF: | 2844 bp |
| Locus ID: | 23327 |
| UniProt ID: | Q96PU5 |
| Cytogenetics: | 18q21.31 |
| Protein Families: | Druggable Genome |
| Protein Pathways: | 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] |

Product images:



Circular map for RG226645