

Product datasheet for **RG227866**

NEDD4 2 (NEDD4L) (NM_001144964) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NEDD4 2 (NEDD4L) (NM_001144964) 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)



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ORF Nucleotide Sequence:

>RG227866 representing NM_001144964
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGCGACCCTATACATTTAAGGACTTCTCCTCAGACCAAGAAGTCATAAGTCTCGAGTTAAGGGAT
 TTTTGCATTGAAAATGGCCTATATGCCAAAAATGGAGGTCAAGATGAAGAAAACAGTGACCAGAGGGA
 TGACATGGAGCATGGATGGGAAGTTGTTGACTCAAATGACTCGGCTTCTCAGCACCAAGAGGAATTCCT
 CCTCCTCCTGCCTCCCGGGTGGGAAGAAAAGTGGACAATTTAGGCCGAATTAATGTCAACCACA
 ACAACCGGACCACTCAGTGGCACAGACCAAGCCTGATGGACGTGTCTCGGAGTCGGACAATAACATCAG
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 AGCTCACACATGCTTTAATCGCCTTGAATACCTCCATATGAAACCTTTGAAGATTTACGAGAGAAACT
 CTCATGGCCGTGGAAAATGCTCAAGGATTTGAAGGGTGGAT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG227866 representing NM_001144964
 Red=Cloning site Green=Tags(s)

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MERP YTFKDFLLRPRSHKSRVKGFLRLK MAYMPKNGGQDEENS DQRDDMEHGWEV VDSNDSASQHQEELP
PPPLPPGWEEKVDNLGR TYVNHNNRTTQWHRPSLMDV SSES DNNIRQINQEA AHRFRSRRHISEDLEP
EPSEGGDVPEPWETISEEVNIAGDSLGLALPPPASP GSRTSPQELSEELSRRLQITPDSNGEQFSSLIQ
REPSSRLRSCSVTDAVAEQGHLPPPSAPAGRARSSTVTGGEEPTPSVAYVHTTPGLPSGWEERKDAKGR T
YYVNHNNR TTTWTRPIMQLAEDGASGSATNSNH LI EPQIRRPRSLSSPTVTL SAPLEGAKDSPVRRRAVK
DTLSNPQSPQPSYNSPKPQHKTQSFLPPGWEMRIAPNGRPF FIDHNTKTTTWEDPRLKFPVHMRSKTS
LNPNDLGPLPPGWEERIHLDGRTFYIDHNSKITQWEDPRLQNP AITGPAVPYSREFKQKYDYFRKLLKPP
ADIPNRFEMKLHRNNIFEESYRRIMSVKRPDVLKARLWIEFESEKGLDYGGVAREWFFLLSKEMFN PYYG
LFEYSATDNYTLQINPNSGLCNEDHLSYFTFIGRVAGLAVFHGKLLDGGFFIRPFYKMMLGKQITLNDMES
VDSEYYNSLKWILENDPTELDLMFCIDEENFGQTYQVDLKPNGSEIMVTNENKREYIDLVIQWRVNRVQ
KQMNAFLEGFTELLPIDLIKIFDENELELLMCGLGDVDVNDWRQHSIYKNGYCPNHPVIQWFKAVLLMD
AEKRIRLLQFVTGTSRVP MNGFAELYG SNGPQLFTIEQWGSPEKLPRAHTCFNRLDLP PYETFEDLREKL
LMAVENAQGFEGVD
  
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TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul

Cloning Scheme:



ACCN: NM_001144964

ORF Size: 2562 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:

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_001144964.1](#), [NP_001138436.1](#)

RefSeq Size: 8436 bp

RefSeq ORF: 2565 bp

Locus ID: 23327

UniProt ID: [Q96PU5](#)

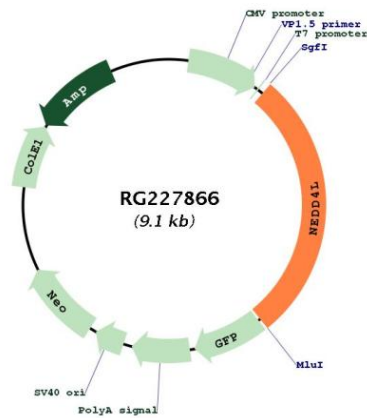
Cytogenetics: 18q21.31

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 RG227866