

Product datasheet for **RC240102**

NEDD4 (NM_001284340) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: NEDD4 (NM_001284340) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: NEDD4
Synonyms: NEDD4-1; RPF1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC240102 representing NM_001284340
Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**CGGATCGCC**

ATGGCACAAAGCTTACGATTGCACTTTGCAGCCAGAAGAAGCAATACTTACCCTTTGTCAGAAACCTCCG
GAGATGACTTGGATAGCCATGTTACATGTGCTTCAAAGACCAACACGGATTTCAACGTCTAACGTTGT
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CAAGGTACAGTGGATATCTTCAGTCTAGCAATGTCTTAGCTGATAGTGATGATGCTTCGTTTACTTGTAT
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CTTGCAAGACAGAAAATCCAAGATTGGAGAGACCATATACATTTAAGGATTTTGTCTTCATCCAAGAAG
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Protein Sequence: >RC240102 representing NM_001284340
 Red=Cloning site Green=Tags(s)

MAQSLRLHFAARRSNTYPLSETSGDDLDSHVHMCFKRPTTRISTSNVVQMKLTPRQTALAPLIKENVQSQE
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 VSSPAICSGSLSNFSTSDNGSYSSNGSDFGSCASITSGGSYTNVSISSSSYTFPPSDDTFLGGNLPSSDS
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 HNIKRTQWEDPRLNVAITGPAVPYSRDYKRKYEFFRRKLKQNDIPNKFEMKLRRATVLEDSYRR
 IMGVKRADFLKARLWIEFDGEKGLDYGVAWEFFLISKEMFNYYGLFEYSATDNYTLQINPNSGL
 CNEDHLSYFKFGRVAGMAYYHGKLLDGGFIRPFYKMLHKPITLHDMESVDSEYNSLRWILENDP
 TELDLRFIIDEELFGQTHQHELKNGGSEIVVTNKNKKEYIYLVIQWRVFNRIQKQMAAFKEG
 FFELIPQDLIKIFDENELELLMCGLDGDVDVNDWREHTKYKNGYSANHQVIQWFKAVL
 MMDSEKRIRLQLQFTGTSRVPMNGFAELYGSNGPQSFTVEQWGTPEKLPRAHTCFNR
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

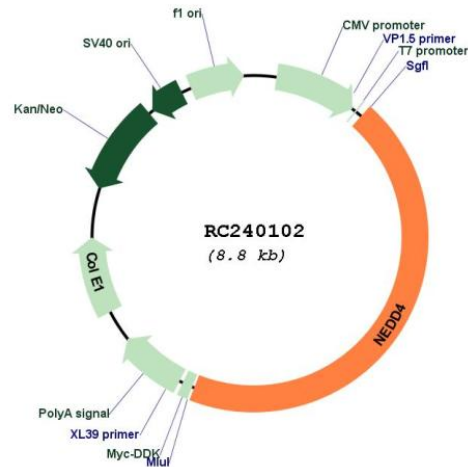
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001284340

ORF Size: 3906 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_001284340.1](#), [NP_001271269.1](#)

RefSeq Size: 7189 bp

RefSeq ORF: 3909 bp

Locus ID: 4734

UniProt ID: [P46934](#)

Cytogenetics: 15q21.3

Protein Families:	Druggable Genome
Protein Pathways:	Endocytosis, Ubiquitin mediated proteolysis
MW:	147.6 kDa
Gene Summary:	<p>This gene is the founding member of the NEDD4 family of HECT ubiquitin ligases that function in the ubiquitin proteasome system of protein degradation. The encoded protein contains an N-terminal calcium and phospholipid binding C2 domain followed by multiple tryptophan-rich WW domains and, a C-terminal HECT ubiquitin ligase catalytic domain. It plays critical role in the regulation of a number of membrane receptors, endocytic machinery components and the tumor suppressor PTEN. [provided by RefSeq, Jul 2016]</p>