

Product datasheet for **RG221706**

NEDD4 (NM_006154) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NEDD4 (NM_006154) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NEDD4
Synonyms:	NEDD4-1; RPF1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG221706 representing NM_006154
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCAACTTGC CGCGTGGAGGTGTTCCGGCTCCTGGAGGACGAGAAAATTCACGAATTGTGAGAGTAA
 GAGTTATAGCCGAATAGGCCTTGCCAAGAAGGATATATTGGGAGCTAGTGATCCTTACGTGAGAGTGAC
 GTTATATGACCCAATGAATGGAGTTCCTACAAGTGTGCAAAACAAAAACCATTAAAAAGAGTTTGAATCCA
 AAGTGGAAATGAAGAAATATTATTCAGAGTTCATCCTCAGCAGCACCGGCTTCTTTTTGAAGTGTGGACG
 AAAACCGATTGACAAGAGATGATTTCTAGGTCAAGTGGATGTTCCACTTTATCCATTACCGACAGAAAA
 TCCAAGATTGGAGAGACCATATACATTTAAGGATTTTGTCTTCATCCAAGAAGTCACAAATCAAGAGTT
 AAAGTTATCTGAGACTAAAAATGACTTATTTACCTAAAACAGTGGCTCAGAAGATGATAATGCAGAAC
 AGGCTGAGGAATTAGAGCCTGGCTGGGTGTTTTGGACCAACCAGATGCTGCTTGCCATTTGCAGCAACA
 ACAAGAACCTTCTCTACCTCCAGGGTGGGAAGAGAGGCAGGATATCCTTGGAAAGACCTATTATGTA
 AACCATGAATCTAGAAGAACACAGTGGAAAAGACCAACCCCTCAGGACAACCTAACAGATGCTGAGAATG
 GCAACATTCAACTGCAAGCACAACGTGCATTTACCACCAGGCGGCAGATATCCGAGGAAACAGAAAGTGT
 TGACAACCAAGAGTCTTCCGAGAAGTGGGAAATTAAGAGAAGATGAAGCCACCATGTATAGCAGCCAG
 GCCTTCCCATCACCTCCACCGTCAAGTAACTTGGATGTTCCAACCTCATCTTGAGAAGAATTGAATGCCA
 GACTCACCATTTTTGAAATTCAGCCGTGAGCCAGCCAGCATCGAGCTCAAATCATTCCAGCAGAAGAGG
 CAGCTTACAAGCCTACTTTTGGGAACAACCTACACTTCTGTGCTTTGCTACTTTCATCTGGATTA
 CCACCAGTTGGGAAGAAAAACAAGATGAAAGAGGAAGATCATATTATGTAGATCACAATCCAGAACGA
 CTACTTGGACAAAGCCACTGTACAGGCCACAGTGGAGACCAGTCAAGCCAGAGTTCTGC
 AGGCCCTCAATCACAAGCCTCCACAGTGATTCAGGCCAGCAGGTGACCCAGCCATCTGAAATTGAGCAA
 GGATTCCTTCTAAAGGCTGGGAAGTCCGGCATGCACCAATGGGAGGCCTTTCTTTATTGACCACAACA
 CTAACCAACCCACCTGGGAAGATCCAAGATTGAAAATTCAGCCCATCTGAGAGGAAAGACATCACTTGA
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 CAGCAGTCCCTACTCCAGGATTACAAAAGAAAGTATGAGTTCTTCCGAAGAAAGTTGAAGAAGCAGAA
 TGACATTCAAAACAAATTTGAAATGAAACTTCGCCGAGCAACTGTTCTTGAAGACTTTACCGGAGAATT
 ATGGGTGTCAAGAGAGCAGACTTCTGAAGGCTCGACTGTGGATTGAGTTTGTGTTGAAAGGGATTGG
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 GTTTGAATATTCTGCTACGGACAATTATACCCTACAGATAAATCCAAACTCTGGATTGTGTAAACGAAGT
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 GTTTTTTCATCCGCCATTTTACAAGATGATGCTTCAAAACCAATAACCCCTCATGATATGGAATCTGT
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 ATAAAAATGGCTACAGTCAAAATCATCAGTTATACAGTGGTTTTGGAAGGCTGTTTTAATGATGGATTC
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 CTCATACCTGTTTTAATCGCCTGGACTTGCCACCTTATGAATCATTTGAAGAATTATGGGATAAAGTTCA
 GATGGCAATTGAAAACACCCAGGCTTTGATGGAGTTGAT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – **GTTTAA**

Protein Sequence: >RG221706 representing NM_006154
 Red=Cloning site Green=Tags(s)

MATCAVEVFGLEDEENSRIVRVRIAGIGLAKKDILGASDPYVRVTLYDPMNGVLT SVQTKTIKSLNP
 KWNEEILFRVHPQQHRLLEFVFDENRL TRDDFLGQVDVPLYPLTENPRLERPYTFKDFVLHPRSHKSRV
 KGYLRLLKMTYLPKTSGEDDNAEQAEELPQGWVLDQPDAAACHLQQQEPSPPLPPGWEERQDILGRYYYY
 NHESRRQWKRPTPQDNL TDAENGIQLQAQRAF TTRRQISEETESVDNQESSENWEI IREDEATMYSSQ
 AFPSPPPSSNLDVPTHLAEELNARLTIFGNSAVSQPASSNHSSRRGSLQAYTFEEQPTLPVLLPTSSGL
 PPGWEEKQDERGRSYVDHNSRTTWTWKPTVQATVETSQLTSSQSSAGPQSQASTSDSGQVTPSEIEQ
 GFLPKGWVVRHAPNGRPFIDHNTKTTTWEDPRLKIPAHLRGKTSLDTSNDLGPLPPGWEERTHTDGRIF
 YINHNKIRTKQWEDPRLNVAITGPAVPYSRDYKRKYEFFRRKLLKQNDIPNKFEMKLRRATVLEDSYRRI
 MGVKRADFLKARLWIEFDGEKGLDYGGVAREWFFLISKEMFNYYGLFEYSATDNYTLQINPNSGLCND
 HLSYFKF IGRVAGMAVYHGKLLDGGFFIRPFYKMMMLHKPITLHDMESVDSEYYNSLRWILENDPTELDLRF
 IDEELFGQTHQHELKNGGSEIVVTNKNKKEYIYLVIQWRFVNR IQKQMAAFKEGFFELIPQDLIKIFDE
 NELELLMCGLGDVDVNDWREHTKYKNGYSANHQVIQWFKAVLMMSEKRIRLLQFVTGTSRVPMMNGFAE
 LYGSNQPQSFTVEQWGTPEKLPRAHTCFNRLDLPPYESFEELWDKLQMAIENTQGFDDGVD

TRTRPLE - GFP Tag - V

Restriction Sites:

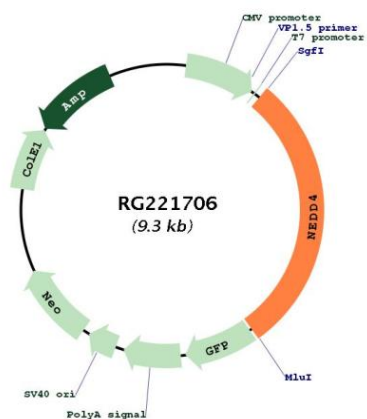
Sgfl-MluI

Cloning Scheme:



ACCN:	NM_006154
ORF Size:	2700 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_006154.1 , NP_006145.1
RefSeq Size:	5749 bp
RefSeq ORF:	2703 bp
Locus ID:	4734
UniProt ID:	P46934
Cytogenetics:	15q21.3
Protein Families:	Druggable Genome
Protein Pathways:	Endocytosis, Ubiquitin mediated proteolysis
Gene Summary:	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]

Product images:



Circular map for RG221706