

Product datasheet for **MG222243**

Nedd4 (NM_010890) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nedd4 (NM_010890) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nedd4
Synonyms:	AA959633; AL023035; AU019897; E430025J12Rik; mKIAA0093; Nedd4-1; Nedd4a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG222243 representing NM_010890
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGCTCGGACATGGCAGCCGACGAGTCGGAGGCCCCAGTACTCTCGGAGGACGAGGTATGGGAGTTTT
 GCCTGGATAAGACAGAAGATGGTGGCGGATCCCCCGGAAGTGATGTTACAGACACTTGTGAGCCTCCATG
 TGGATGCTGGGAGTTGAATCCGAATTCCTGGAAGAGGAGCACGTGCTGTTCACTGCTGATCCGTACCTG
 GAGCTCCACAACGATGACACACGAGTTGTGAGAGTGAAGGTTATAGCTGGCATAGGCCTGGCCAAGAAAAG
 ACATCTTGGGAGCCAGTGATCCTTACGTAAGAGTGACATTGATGACCCGATGAGTGGAACTCTTACCAG
 CGTGCAGACAAAACTATCAAAAAGTCTTTGAATCCAAAATGGAATGAAGAAATACTGTTCCAGGGTCTTT
 CCACAGCGACACCGCATTCTTTTCGAAGTGTGGATGAAAATCGTTTGACAAGAGATGATTTCTAGGTC
 AAGTGGATGTCCCTCTCTATCCTTTACCGACTGAAAACCCAAGAATGGAGAGACCATATACATTTAAGGA
 TTTTGTCTTTCATCCAAGAAGTCACAAAACAAGAGTTAAAGGTTATCTGAGATTAATAATGACTTATTTA
 CCTAAAAATGGCTCAGAAGATGAAAATGCAGACACAGGCTGAGGAGTTAGAGCCTGGCTGGGTTGTTTTGG
 ACCAACCCAGATGCTGCCACTCATTGGCCGATCCACCAGAACCCCTCTCCCTACCTCCAGGATGGGAAGA
 GAGGCAGGATGTCCTTGGGAAGGACCTACTACGTAACCATGAATCTAGAAGAACACAGTGGAAAAGGCCA
 AGCCCTGACGATGACCTCACGGATGAAGACAATGATGATGACAGCTGCAAGCGCAGCGAGCATTACCA
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 CAGACTCACCTTGCAGAAGAGTTAATACCAGACTTCCCGTGTGTGAAAATCCAGCCACCAGCCAGCCGG
 TTACCAGCTCAAATCATTCCAGCAGAGGAGGAGGAGCTTGCAGACCTGTATCTTTGAGGAACAGCCTACA
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 TCATACTATGTAGACCACAACCTCTAAAACCACCACATGGTCCAAGCCACCATGCAGGATGATCCAAGAT
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 AGAAAAGAACCCACACAGATGGGCGAGTCTTCTTATAAACCAATAAAGAAGACCCAGTGGGAAGAT
 CCTCGCTGCAGAACGTGGCAATCACTGGACCAGCAGTGCCTACTCCAGAGATTACAAGAGAAAGTACG
 AGTTCTTCAGAAGGAAGCTCAAGAAGCAGACTGACATTCCAAACAAATTTGAAATGAAGCTTCGCCGCGC
 AAACATCTCGGAGGATTCTTACCGGAGGATTATGGGTGTGAAGAGAGCTGACTTGCTCAAGGCCAGACTC
 TGGATTGAGTTTGTGGTAAAAGGGCCTTGACTATGGAGGGTTGCCAGAGAGTGGTTCTTCTCATCT
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 ACCACAGGATCTCATCAAGATTTTGTGAAAATGAGCTAGAGCTTCTCATGTGTGGTCTGGGAGATGTG
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 GGTTCGGAAGGCTGTTTGGATGATGGATTCGGAAAAAAGAATACGCTTACTTCAGTTTGTCACTGGCAC
 ATCCCCTGTGCCGATGAATGGGTTTGTGAACTCTATGGCTCGAATGGACCACAATCCTTACAGTGGAA
 CAATGGGGCACCCCTGATAAGCTGCCAAGAGCACACACCTGCTTCAATCGCCTGGACCTGCCACCCTACG
 AATCCTTTGACGAACTCTGGGATAAACTTCAGATGGCAATTGAGAACACACAGGGCTTTGATGGCGTTGA
 T

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG22243 representing NM_010890
 Red=Cloning site Green=Tags(s)

MSSDMAADESEAPVLSEDEVWEFCLDKTEDGGGSPGSDVTDTCPEPPCGCWELNPNSLEEEHVLFTADPYL
 ELHNDTRVVRVKVIAGIGLAKKDILGASDPYVRVTLYDPMGILTSVQTKTIKKS LNPKWNEEILFRVL
 PQRHRILFEVFDENRLTRDDFLGQVDVPLYPLPTENPRMERPYTFKDFVLHPRSHKSRVKGYLR LKMTYL
 PKNGSEDENADQAELEPGWVVLDPDAATHLPHPEPSPLPPGWEERQDVLGRYYVNHESRRTQWKRP
 SPDDDLTDEDNDMDQLQAQRAFTRRQISEDVDGPDNRESPENWEIVREDETEYSGQAVQSPPSGHIDV
 QTHLAEEFNTRLAVCGNPATSQPVTSSNHSSRGGSLQTCIFEEQPTLPVLLPTSSGLPPGWEEKQDDRGR
 SYYVDHNSKTTTWSKPTMQDDPRSKIPAHLRGKTDSDNLGPLPPGWEERTHTDGRVFFINHNIKKTQWED
 PRLQNVAITGPAVPYSRDYKRKYEFFRRKLKKQTDIPNKFEMKLRRANILED SYRRIMGVKRADLLKARL
 WIEFDGEKGLDYGGVAREWFFLISKEMFNYYGLFEYSATDNYTLQINPNSGLCNEDHLSYFKF IGRVAG
 MAVYHGKLLDGGFIRPFYKMLLQKLITLHDMESVDSEYSSLRWILENDPTELDLRFIIDEELFGQTHQH
 ELKTGGSEIVVTNKNKKEYIYLVIQWRFVNRIQKQMAAFKEGFELIPQDLIKIFDENELELLMCGLDV
 DVNDWREHTKYKNGYSMNHQVIHWFVKAVWMDSEKRIRLLQFVTGTSRVPMNGFAELYSNGPQSFTVE
 QWGTPDKLPRAHTCFNRDLPPYESFDELWDLQMAIENTQGFQDGV

TRTRPLE - GFP Tag - V

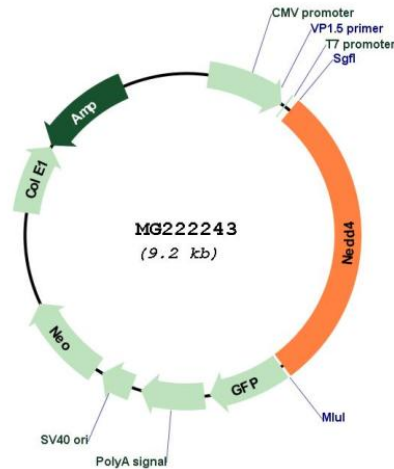
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_010890

ORF Size: 2661 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in *E. coli* are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_010890.3 , NP_035020.2
RefSeq Size:	5494 bp
RefSeq ORF:	2664 bp
Locus ID:	17999
UniProt ID:	P46935
Cytogenetics:	9 40.08 cM
Gene Summary:	<p>E3 ubiquitin-protein ligase which accepts ubiquitin from an E2 ubiquitin-conjugating enzyme in the form of a thioester and then directly transfers the ubiquitin to targeted substrates. Specifically ubiquitinates 'Lys-63' in target proteins (By similarity). Monoubiquitinates IGF1R at multiple sites, thus leading to receptor internalization and degradation in lysosomes. Ubiquitinates FGFR1, leading to receptor internalization and degradation in lysosomes. Involved in ubiquitination of ERBB4 intracellular domain E4ICD1 (PubMed:19193720). Predominantly involved in ubiquitination of membrane bound forms of ERBB4 rather than processed precursors and intermediate membrane-anchored 80 kDa fragments (m80HER4), with a lesser role in ubiquitination of ERBB4 intracellular domain E4ICD1 (PubMed:19047365). Promotes ubiquitination of RAPGEF2. Involved in the pathway leading to the degradation of VEGFR-2/KDFR, independently of its ubiquitin-ligase activity. Part of a signaling complex composed of NEDD4, RAP2A and TNIK which regulates neuronal dendrite extension and arborization during development. Ubiquitinates TNK2 and regulates EGF-induced degradation of EGFR and TNF2 (By similarity). Involved in the ubiquitination of ebola virus VP40 protein and this ubiquitination plays a role in facilitating viral budding. Ubiquitinates BRAT1 and this ubiquitination is enhanced in the presence of NDFIP1 (By similarity). [UniProtKB/Swiss-Prot Function]</p>