

## Product datasheet for **MR222243**

### **Nedd4 (NM\_010890) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Nedd4 (NM_010890) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nedd4
Synonyms:	AA959633; AL023035; AU019897; E430025J12Rik; mKIAA0093; Nedd4-1; Nedd4a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>MR222243 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAGCTCGGACATGGCAGCCGACGAGTCGGAGGCCCCAGTACTCTCGGAGGACGAGGTATGGGAGTTTT  
 GCCTGGATAAGACAGAAGATGGTGGCGGATCCCCGGAAGTGATGTTACAGACACTTGTGAGCCTCCATG  
 TGGATGCTGGGAGTTGAATCCGAATTCCTGGAAGAGGAGCACGTGCTGTTCACTGCTGATCCGTACCTG  
 GAGCTCCACAACGATGACACACGAGTTGTGAGAGTGAAGGTTATAGCTGGCATAGGCCTGGCCAAGAAAAG  
 ACATCTTGGGAGCCAGTGATCCTTACGTAAGAGTGACATTGATGACCCGATGAGTGGAACTCTTACCAG  
 CGTGCAGACAAAACTATCAAAAAGTCTTTGAATCCAAAATGGAATGAAGAAATACTGTTCAAGGTCCTT  
 CCACAGCGACACCGCATTCTTTTCGAAGTGTGGATGAAAATCGTTTGACAAGAGATGATTTCTAGGTC  
 AAGTGGATGTCCCTCTCTATCCTTTACCGACTGAAAACCCAAGAATGGAGAGACCATATACATTTAAGGA  
 TTTTGTCTTTCATCCAAGAAGTCACAAAACAAGAGTTAAAGGTTATCTGAGATTAATAATGACTTATTTA  
 CCTAAAAATGGCTCAGAAGATGAAAATGCAGACACAGGCTGAGGAGTTAGAGCCTGGCTGGGTTGTTTTGG  
 ACCAACCCAGATGCTGCCACTCATTGGCCGATCCACCAGAACCCCTCTCCCTACCTCCAGGATGGGAAGA  
 GAGGCAGGATGTCCTTGGAAAGGACCTACTACGTAACCATGAATCTAGAAGAACACAGTGGAAAAGGCCA  
 AGCCCTGACGATGACCTCACGGATGAAGACAATGATGATGACAGCTGCAAGCGCAGCGAGCATTACCA  
 CCAGGCGGCAGATATCGGAGGATGTGGATGGCCCTGACAACCGGGAGTCCCCTGAGAATGGGAAATCGT  
 ACGAGAAGATGAAAACACCGAGTATAGTGGTCAAGGCTGTCAGTCACTCCATCGGGTCACTTATGATGTG  
 CAGACTCACCTTGCAGAAGAGTTAATACCAGACTTCCCGTGTGTGAAAATCCAGCCACCAGCCAGCCGG  
 TTACCAGCTCAAATCATTCCAGCAGAGGAGGAGGCTTGCAGACCTGTATCTTTGAGGAACAGCCTACACT  
 TCCTGTGCTTTTGCCTACTTCATCTGGATTGCCACCAGGTTGGGAAGAAAAACAAGATGACAGAGGAAGA  
 TCATACTATGTAGACCACAACCTCTAAAACCACCACATGGTCCAAGCCACCATGCAGGATGATCCAAGAT  
 CGAAAAATCCCTGCTCATCTGAGAGGAAAGACTGACTCCAATGACCTGGGACCCCTACCTCCAGGCTGGGA  
 AGAAAAGAACCCACACAGATGGGCGAGTCTTCTTATAAACCAATAAAGAAGACCCAGTGGGAAGAT  
 CCTCGCTGCAGAACGTGGCAATCACTGGACCAGCAGTGCCTACTCCAGAGATTACAAGAGAAAGTACG  
 AGTTCTTCAGAAGGAAGCTCAAGAAGCAGACTGACATTCAAAACAAATTTGAAATGAAGCTTCGCCCGGC  
 AAACATCTCGAGGATTCTTACCGGAGGATTATGGGTGTGAAGAGAGCTGACTTGCTCAAGGCCAGACTC  
 TGGATTGAGTTTGTGGTAAAAGGGCCTTGACTATGGAGGGTTGCCAGAGAGTGGTTCTTCTCATCT  
 CGAAGGAAATGTTCAACCCTTACTACGGCTGTTTGAATATTCTGCTACGGATAATTACACCCTACAGAT  
 AAATCCTAACTCGGGCTTGTGAATGAAGATCACCTCTCATACTTCAAGTTCATTGGCCGTGTGGCTGGG  
 ATGGCAGTTTATCATGGCAAGCTGTTGGATGGGTTTTTCATCCGTCCGTTTTACAAGATGATGCTTCAGA  
 AACTGATAACACTGCACGACATGGAGTCCGTGGATAGTGAATATTACAGTTCTCTGCGATGGATTCTTGA  
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 GAAGTAAAACCGGAGGATCAGAGATTGTTGTACCAATAAGAACAAAAAGGAGTATATCTACCTTGTA  
 TACAATGGCGATTTGTGAACCGTATCCAGAAGCAAATGGCAGCTTTTAAAGAGGGATTTTTGAAGTGTG  
 ACCACAGGATCTCATCAAGATTTTGTGAAAATGAGCTAGAGCTTCTCATGTGTGGTCTGGGAGATGTG  
 GATGTGAACGACTGGCGGGAACACAAAAATCAAAAATGGCTACAGCATGAACCAACAGGTCATCCACT  
 GGTTCGGAAGGCTGTTTGGATGATGGATTCGGAAAAAAGAATACGCTTACTTCAAGTTTGTCACTGGCAC  
 ATCCCGTGTGCCGATGAATGGGTTTGTGAACTCTATGGCTCGAATGGACCACAATCCTTACAGTGGAA  
 CAATGGGGCACCCCTGATAAGCTGCCAAGAGCACACACCTGCTTCAATCGCCTGGACCTGCCACCCTACG  
 AATCCTTTGACGAACTCTGGGATAAACTTCAGATGGCAATTGAGAACACACAGGGCTTTGATGGCGTTGA  
 T

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR222243 protein sequence  
 Red=Cloning site Green=Tags(s)

MSSDMAADESEAPVLSEDEVWEFCLDKTEDGGGSPGSDVTDTCPEPPCGCWELNPNSLEEEHVLFTADPYL  
 ELHNDTRVVRVKVIAGIGLAKKDILGASDPYVRVTLYDPMGILTSVQTKTIKSLNPKWNEEILFRVL  
 PQRHRILFEVFDENRLTRDDFLGQVDVPLYPLTENPRMERPYTFKDFVLHPRSHKSRVKGYLRKMTYL  
 PKNGSEDENADQAEELPGWVVLQPDAAHLPHPEPSPLPPGWEERQDVLGRTYVYNHESRRTQWKR  
 SPDDDLTDEDNDDMQLQAQRAFTRRQISEDVDGPDNRESPENWEIVREDETEYSGQAVQSPPSGHIDV  
 QTHLAEEFNTRLAVCGNPATSQPVTSSNHSSRGGSLQTCIFEEQPTLPVLLPTSSGLPPGWEEKQDRGR  
 SYYVDHNSKTTTWSKPTMQDDPRSKIPAHLRGKTDNDLGPLPPGWEERTHTDGRVFFINHNKKTQWED  
 PRLQNVAITGPAVPYSRDYKRKYEFFRRKLLKQTDIPNKFEMKLRRANILEDYRRIMGVKRADLLKARL  
 WIEFDGEKGLDYGAVAREWFFLISKEMFNYYGLFEYSATDNYTLQINPNSGLCNEDHLSYFKFGRVAG  
 MAVYHGKLLDGGFIRPFYKMLLQKLITLHDMESVDSEYSSLRWILENDPTELDLRFIIDEELFGQTHQH  
 ELKTGGSEIVVTNKNKKEYIYLVIQWRFVNRIQKQMAAFKEGFELIPQDLIKIFDENELELLMCGLDV  
 DVNDWREHTKYKNGYSMNHQVIHWFVKAVWMDSEKRIRLLQFVTGTSRVPMNGFAELYSNGPQSFTVE  
 QWGTPDKLPRAHTCFNRDLPPYESFDELWDLQMAIENTQGFQDGV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

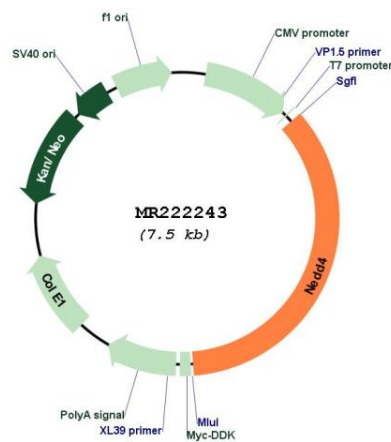


**ACCN:** NM\_010890

<b>ORF Size:</b>	2664 bp
<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_010890.3</a> , <a href="#">NP_035020.2</a>
<b>RefSeq Size:</b>	5494 bp
<b>RefSeq ORF:</b>	2664 bp
<b>Locus ID:</b>	17999
<b>UniProt ID:</b>	<a href="#">P46935</a>
<b>Cytogenetics:</b>	9 40.08 cM
<b>MW:</b>	102.7 kDa

**Gene Summary:**

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/KDR, 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]

**Product images:**

Circular map for MR222243