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Product datasheet for MG210874

Nedd9 (NM_017464) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nedd9 (NM_017464) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nedd9
Synonyms:	Cas-L; CasL; HEF1; MEF1; Nedd-9; p105
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG210874 representing NM_017464
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAGTACAAGAATCTTATGGCAAGGGCCTTGTATGACAACGTCCCTGAGTGTGCTGAGGAGCTGGCCT
TCCGCAAGGGAGACATCTTAACTGTCATAGAGCAGAACACAGGAGGGCTTGAGGGATGGTGGCTGTGTTC
CCTCCACGGTCGCCAAGGCATTGTCCCAGGGAACCGGGTGAAGCTTCTGATTGGTCCAGTGCAAGAGACC
CCCGGTCATGAGCAGCCTACTCCTGGACCTATGCATCAGACCTTTGGCCAACAGAAACTCTATCAAGTGC
CAAATTCCCAGGCAGCATCTCGGGATACCATCTACCAAGTGCCACCCTCCTACCAGAATCAGGGAATTTA
CCAAGTACCCACTGGCCATGGCACTCCAGAACAAGATGTATATCAAGTACCACCATCAGTTCAGAGGAAC
ATTGGCGGCACTAATGGACCCCTTCTAAGCAAAAAGGTGATCACCCCAGTGAGGACGGGCCATGGCTATG
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ATATGACATCCCTCCTTCCTCAGTAAAAGGCCCTGTGTTTTCAGTTCCAGTGGGAGAGATAAAACCTCAA
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GATGCTCCAGGAGGTGTCGAACCAATGGCACGAAGACACCAGAGCTTTTCCCTGCACCATGCACCCTCTC
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ACCAACAGAAACCAGTGAAAAGGCAAATCCGGAGGAAAGAGACGGTGTCTACGATGTCCCTCTGCACAAC
CCAGCAGATGCCAAAGGCTCTCGGGACGTGGTAGATGGGATCAACAGACTGTCTTTCTCCAGCACTGGCA
GTACCAGGAGTAACATGTCCACCTCTTCCACCTCCTCAAAGGAGTCTTCACTGTCAGCCTCCCCGTCTCA
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GTAGAAGATTCCCACCAGATTCTAAGCCAAACCAGCCATGACTTGAATGAATGCAGCTGGTCCCTGAATA
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GCCAATTCCCATCTGAAGAATGGGCCCAACAGCATCATGAACTCAAGCGAGTACACACATCCGGGCTCCC
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CAAGGACCAGCCACCAGACTGCGGTAGCAGTGACGGTTCTGAGCGGAGTTGGATGGATGATTATGATTAT
GTTCACCTACAGGGCAAGGAGGAGTTTGAGCGACAGCAGAAGGAGCTCTTGGAAAAGGAGAACATCATGA
AGCAGAGTAAGGCGCAGCTGGAGCATCACCAGCTGAGTCAGTTCCAGCTGTTGGAACAAGAGATCACCAA
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GCTCAGGATAGGCAGTTGCTTTGCTTCTACTATGACCAGTGCGAGACCCATTTCATTTCCCTACTCAACG
CCATCGACGCCCTCTTCAGCTGCGTCAGCTCAGCCCAACCCCCACGGATCTTTGTGGCGCACAGCAAGTT
TGTCATTCTTAGTGCGCACAAACTGGTGTTCATTGGAGACACTCTGACAAGGCAGGTGGCTGCCCAGGAC
ATTCGCAACAAAGTCAGGAACTCCAGCAACCAGCTCTGCGAACAGCTCAAGACGATAGTGATGGCGACCA
AAATGGCCGCCCTCCACTACCCCAGTACCACCGCCTTGCAGGAAATGGTGCACCAGGTGACAGACCTGTC
CAGAAATGCTCAGCTGTTTAAGCGTTCCTTGCTGGAGATGGCCACCTTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

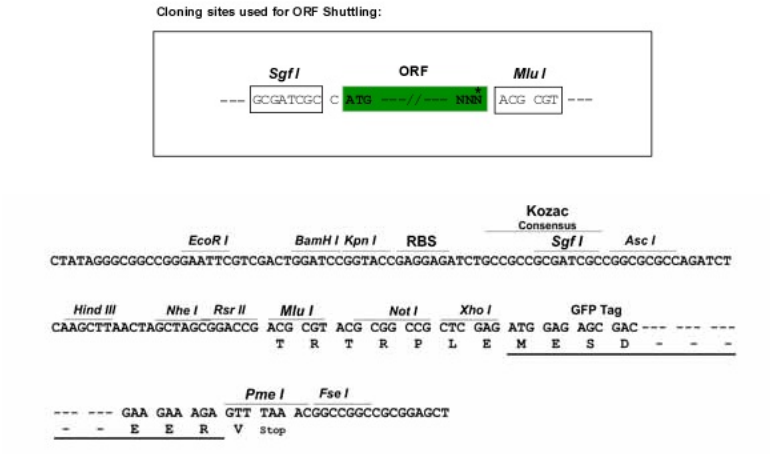
>MG210874 representing NM_017464
Red=Cloning site Green=Tags(s)

MKYKNLMARALYDNVPECAEELAFRKGDILTVIEQNTGGLEGWWLCSLHGRQGIVPGNRVKLLIGPVQET
PGHEQPTPGPMHQTFGQQKLYQVPNSQAASRDTIYQVPPSYQNQGIYQVPTGHGTPEQDVYQVPPSVQRN
IGGTNGPLLSKKVITPVRTGHGYVYEYPSRYQKDVYDVPPSHSTQGVYDIPPSSVKGPVFSVPVGEIKPQ
GVYDIPPTQGVYAIPPSACRDEAGLREKEYDFPPPMKQDGKPDTRPEGVYDIPPTSTKTAGKDLHIKFPC
DAPGGVEPMARRHQSFSLHHAPSQLGQSGDTQSDAYDVPRGVQFLEVPTETSEKANPEERDGVYDVPLHN
PADAKGSRDVVDGINRLSFSSTGSTRSNMSTSSTSSKESSLSASPSQDKRLRLDPDTAIEKLYRLQQTLE
MGVCSLMSLVTTDWRCYGYMERHINEIRTAVDKVELFLREYLHFAKGALANASCLPELVLHNKMKRELQR
VEDSHQILSQTSHDLNECSWSLNILAINKPQNKCDDLDRFVMVAKTVPDDAKQLTTTISTYAETLFRADP
ANSHLKNGPNSIMNSSEYTHPGSQMQPLHPGDYKAQVHSKPLPPSLSKDQPPDCGSSDGSERSWMDDYDY
VHLQGKEEFERQQKELLEKENIMKQSKAQLEHHQLSQFQLLEQEITKPVENDISKWKPSQSLPTTNNSVG
AQDRQLLCFYYDQCETHFISLLNAIDALFSCVSSAQPPRIFVAHSKFVILSAHKLVFIGDTLTRQVAAQD
IRNKVRNSSNQLCEQLKTIVMATKMAALHYPSTTALQEMVHQVTDLSRNAQLFKRSLLEMATF

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:

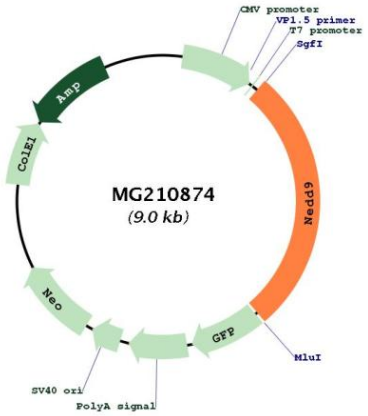


ACCN: NM_017464

ORF Size: 4381 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_017464.5, NP_059492.3
RefSeq Size:	4463 bp
RefSeq ORF:	2502 bp
Locus ID:	18003
UniProt ID:	O35177
Cytogenetics:	13 A3.3- A4
Gene Summary:	Docking protein which plays a central coordinating role for tyrosine-kinase-based signaling related to cell adhesion. May function in transmitting growth control signals between focal adhesions at the cell periphery and the mitotic spindle in response to adhesion or growth factor signals initiating cell proliferation. May play an important role in integrin beta-1 or B cell antigen receptor (BCR) mediated signaling in B- and T-cells. Integrin beta-1 stimulation leads to recruitment of various proteins including CRK, NCK and SHPTP2 to the tyrosine phosphorylated form (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG210874