

Product datasheet for **MG200148**

Nedd8 (NM_008683) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Nedd8 (NM_008683) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Nedd8
Synonyms: Rub1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG200148 representing NM_008683
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTAATTAAGTGAAGACGCTGACTGGGAAGGAGATTGAGATAGACATCGAACCCACAGACAAGGTGG
 AGCGAATCAAGGAGCGTGTGGAAGAAAAGAAGGGATCCCCCAGCAGCAGCGGCTCATCTACAGTGG
 CAAGCAAATGAATGATGAGAAGACAGCAGCTGATTACAAGATTCTAGGTGGTTCCGTCCTCCACCTGGT
 TTGGCTCTTAGAGGAGGAGGTGGTCTTGGGCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG200148 representing NM_008683
 Red=Cloning site Green=Tags(s)

MLIKVKTLTGKEIEIDIEPTDKVERIKERVEEKEGIPPQQRLIYSGKQMNDKTAADYKILGGSVLHLV
 LALRGGGGLGQ

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

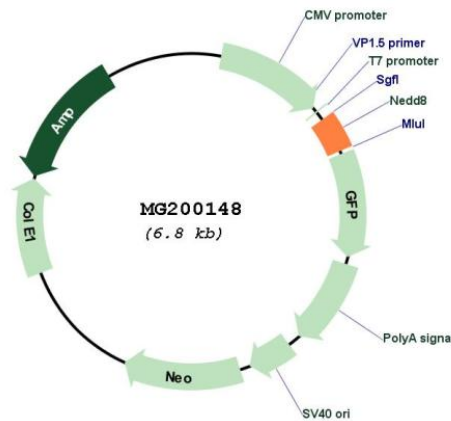


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Cloning Scheme:



Plasmid Map:



ACCN: NM_008683

ORF Size: 243 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_008683.4
RefSeq Size:	603 bp
RefSeq ORF:	246 bp
Locus ID:	18002
UniProt ID:	P29595
Cytogenetics:	14 28.19 cM
Gene Summary:	Ubiquitin-like protein which plays an important role in cell cycle control and embryogenesis. Covalent attachment to its substrates requires prior activation by the E1 complex UBE1C-APPBP1 and linkage to the E2 enzyme UBE2M. Attachment of NEDD8 to cullins activates their associated E3 ubiquitin ligase activity, and thus promotes polyubiquitination and proteasomal degradation of cyclins and other regulatory proteins.[UniProtKB/Swiss-Prot Function]