

Product datasheet for **RG224100**

NOL6 (NM_139235) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	NOL6
Synonyms:	bA311H10.1; NRAP; UTP22
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence: >RG224100 representing NM_139235
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGGGCCGGCGCCAGCTGGAGAGCAGCTTCGCGAGCGACTGGAGAGCCAGAGGTGATGGAACAGCCC
 TGGAAAGGCACAGGCAAAGAGGGGAAGAAAGCATCCTCCAGGAAGCGTACATTGGCTGAACCTCCAGCGAA
 GGGCCTCCTGCAGCCAGTGAAGCTCAGCAGGGCAGAACTGTACAAGGAGCTACCAATGAGGAGCTTAAT
 CGCCTTCGGGAGACTGAGATCTTGTCCACTCCAGCTTGCTTCGTTTACAGGTAGAGGAGCTACTAAAGG
 AAGTAAGGCTGCAGAGAAGAAGAAGGATCGGATTGATGCCTTCCTACGGGAGGTCAACCAGCGGTTGT
 GAGGGTGCCCTCAGTCCCTGAGACAGAGCTCACTGACCAGGCATGGCTCCAGCTGGGTTGAGATGCC
 CTCCACCAAGTGCCCTATGCCGTGAAGGGCTGTTCCGCTTCTGCCCCAGCCAGGTTACTGTTGTGG
 GCAGCTACCTTCTGGGCACCTGCATCCGACCAGACATCAATGTGGATGTGGCACTGACCATGCCAGGGA
 AATCCTACAGGACAAGGACGGGCTGAACCAGCGCTACTCCGCAAGCGTGCCCTCTACCTGGCCCACTTG
 GCTCACCACCTGGCCAGGACCCCTCTTTGGCAGTGTTCCTTCTCCTACACAAATGGCTGCCACCTGA
 AACCCTCACTGTTGCTGCGGCCGCGTGAAAGGATGAGCGCTGGTCACTGTACGTCTGCATCCGTGCC
 TCCACCTGACTTCTCCGCCGTCGCGCTTGCTGCCAACCAAGAACAATGTGCGCTCTGCTGGTACCGA
 GGGCAGAGTCTGCAGGGGATGGTAGCCAGAGCCTCTACCCCGCTATAACACATGGGTCTGCAAG
 ATACAGTTCTCGAGTCCATTTCAGCTGCTGTCAACCATCTGAGTTTACGCCAGGGCCTGAAGGATGG
 CGTGGCACTTCTGAAGGTCTGGCTGCGGCAGCGGAGCTGGACAAGGGCCAGGGTGGGTTTACTGGGTT
 CTTGTCTCCATGCTGGTGTCTTCTGTGTCTACACGCAAGATCCATACCACCATGAGTGGCTACCAGG
 TCCTGAGAAGTGTCTGAGTTTCTGGCCACTACAGACCTGACAGTCAACGGGATCAGTTTATGTCTCAG
 CTCAGATCCCTCTTTCGCGGCCCTGGCTGACTTCCACCAGGCCTTCTCCGTTGTCTTCTGGATTCTCA
 GGCCATCTCAACCTCTGTGCTGATGTCACTGCCTCTACTTACCACCAGGTACAGCATGAGGCACGGCTGT
 CTATGATGTTGCTGGACAGCAGAGCTGACGACGGGTCCACCTGCTGTTGATGACTCCCAACCCATGAT
 CCGGGCTTTTGACCATGCTCTGCATCTCCGTCCACTGAGTCGCCTGCAGGCAGCGTGCCACCGGCTGAAG
 CTCTGGCCAGAGCTGCAGGACAATGGTGGGACTATGTCTCAGCTGCTTTGGGGCCCTGACCACCTCC
 TGGAGCAGGGCCTGGGGCTCGGCTGAACCTGCTGGCTCACTCTGACCCCCAGTCCAGAGTGGGACAT
 CAGCCAAGATCCACCAAGCACAAAGACTCTGGGACCCTGACCCTGGGACTCCTTCTCCGGCTGAGGGA
 CTGACCAGCGTCTTGAGCTGGGTCCAGAGGCAGACCAGCTGAGGCTGCTAAATCCGCCAGTTCTGGG
 GATCCCGCTCGGAGCTTCGGCGTTTCCAGGACGAGGCAATCGGGAAGCTGTGGTCTGGGAGGCAGCCTC
 TATGTCCCAGAAGCGCCTTATCCCAACAGGTGGTCACCACCTCTTGCACTCCATGCTGACATCCCA
 GAAACCTGTGTCCACTATGTGGGGGGCCCCCTGGATGCACTTATCAAGGCCTGAAAGAGGCCTCCAGCA
 CAAAGGGGCGCATGGTGATGTCTGAGGTGGGAGCTAGTAATGGTGCCCAATGTTGAAGCAATCCTGGA
 GGACTTGTGTGCTGGGTGAAGGCCTGGTGCAGACTGTGGAGGCCGAAGTGAGAGGTGGACTGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAA

Protein Sequence: >RG224100 representing NM_139235
 Red=Cloning site Green=Tags(s)

MGPAPAGEQLRGATGEPEVMEPALEGTGKEGKKASSRKRTLAEPKAGLLQPVKLSRAELYKEPTNEELN
 RLRETEILFHSSLLRLQVEELLKEVRLSEKKKDRIDAFIREVNQRVVRVPSVPETELTDQAWLPAGVRVP
 LHQVPYAVKGCFRFLPPAQVTVVGSYLLGTCIRPDINVDVALTMPREILQDKDGLNQRYFRKRALYLAHL
 AHHLAQDPLFGSVCFSTYNGCHLKPSLLLRPRGKDERLVTVRLHPCPPPDFFRPCRLLPKNNVRSWYR
 GQSPAGDGSPEPTPRYNTWVLQDVTLESHLQLLSTILSSAQGLKDGVALLKVWLQRQLDKGQGGFTGF
 LVSMVLVFLVSTRKIHTTMSGYQVLRSLVQLFATDITVNGISLCLSSDPSLPALADFHQAFSVVFLDSS
 GHLNLCAVDASTYHQVQHEARLSMMLDSRADDGFHLLMTPKPMIRAFDHLHLRPLSRLQAACHRLK
 LWPELQDNGGDYVSAALGPLTTLLEQGLGARLNLHAHRPPVPEWDISQDPPKHKDSGLTLGLLLRPEG
 LTVSVELGPEADQPEAAKFRQFWGSRSELRRFQDGAIREAVVWEAASMSQKRLIPHQVVTHLLALHADIP
 ETCVHYVGGPLDALIQGLKEASSTKGRMVMSRGELVMVPNVEAILEDFAVLGEGLVQTVEARSERWTV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_139235

ORF Size: 2097 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:

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.

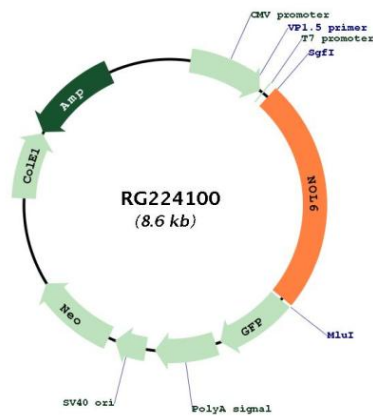
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_139235.3](#), [NP_631981.2](#)

RefSeq Size: 3554 bp

RefSeq ORF:	2100 bp
Locus ID:	65083
UniProt ID:	Q9H6R4
Cytogenetics:	9p13.3
Protein Families:	Druggable Genome
Gene Summary:	The nucleolus is a dense subnuclear membraneless organelle that assembles around clusters of rRNA genes and functions in ribosome biogenesis. This gene encodes a nucleolar RNA-associated protein that is highly conserved between species. RNase treatment of permeabilized cells indicates that the nucleolar localization is RNA dependent. Further studies suggest that the protein is associated with ribosome biogenesis through an interaction with pre-rRNA primary transcripts. Alternative splicing has been observed at this locus and two splice variants encoding distinct isoforms have been identified. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG224100