

Product datasheet for **RG209354**

NOL7 (NM_016167) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NOL7 (NM_016167) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NOL7
Synonyms:	C6orf90; dj223E5.2; PQBP3; RARG-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG209354 representing NM_016167 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGCAGCTCCGACCGCGAGCGTCTCGCGCCCCGGCGTCGGCGGAGGCGATGGTGGACGAGGGCCAGC
TGGCCTCGGAGGAGGAGGAGGCGGAGCACGGGCTGTTGCTCGGGCAGCCAGCAGCGGCGCGCCCGCA
GCCCTGGAGGAAGACGAGGAAGGGGACGATGAGTTTGACGATGAGGCCCGGAGGAGCTGACTTTCGCC
AGCGCCAGGCGGAAGCGAGAGAAGAGGAGCGGCGAGTGC GGAGACCGTGCAGGATAAAACGCTCC
TGAAGGAGAAGAGGAAGCGACGCGAGGAGCTGTTTCATCGAACAGAAAAGAAAACCTCCTCCAGACAC
TATTTTGGAGAAGTTAACCACAGCTTCACAGACTAACATCAAGAAATCGCCAGGAAAAGGTGAAAGAAGTT
AATTTGCAAAAAGAAAATGAAGACTGTGAAAAAGGAAATGACTCCAAGAAAGTTAAAGTACAAAAAGTAC
AGTCTGTGAGCCAGAATAAAGCTACTTGGCCGTAAGGCTAAAAGACCAAGATCTGAGAGATTCAAGGCA
ACAAGCAGCACAAGCCTTCATACATAATTCATTATATGGGCCAGGAACCAACAGGACTACTGAAAATAAG
TTCCTGTCTTTGCCAACAGAGGTTACCAGTGAAAAGAGCTGCTGTCCAGTTTTTGAATAATGCTTGGG
GAATCCAAAAAACAATAATGCCAAGAGGTTTAAAAGACGGTGGATGGTCAGAAAGATGAAAACCTAAGAA
G

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG209354 representing NM_016167
Red=Cloning site Green=Tags(s)

MVQLRPRASRAPASAEAMVDEGQLASEEEEEAEHGLLLGQPSSGAAAEPLLEEDEEGDDEFDDEAPEELTFA
 SAQAEAREEERRVRETVRRDKTLLEKRRRREELFIEQKKRLLPDTILEKLTTASQTNIKKSPGKVKEV
 NLQKKNEDCEKGNDSKKVKVQKVQSVSQNKSYLAVRLKDQDLRDSRQAAQAFIHNSLYGPGTNRRTTVNK
 FLSLANKRLPVKRAAVQFLNNAWGIQKKQNAKRFKRRWMVRKMKTKK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_016167

ORF Size: 771 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.

RefSeq: [NM_016167.5](#)

RefSeq Size: 896 bp

RefSeq ORF: 774 bp

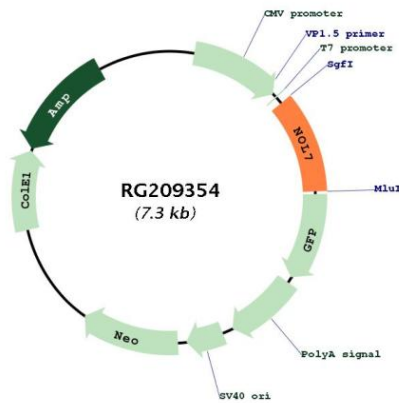
Locus ID: 51406

UniProt ID: [Q9UMY1](#)

Cytogenetics: 6p23

Gene Summary: The protein encoded by this gene localizes to the nucleolus, where it maintains nucleolar structure and cell growth rates. The encoded protein also functions as a tumor suppressor and regulator of angiogenesis. The RB tumor suppressor gene recruits transcription factors to this gene and positively regulates its expression. Two transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Dec 2015]

Product images:



Circular map for RG209354