

Product datasheet for **RG201481**

NOLA1 (GAR1) (NM_018983) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NOLA1 (GAR1) (NM_018983) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NOLA1
Synonyms:	NOLA1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG201481 representing NM_018983 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTTTTCGAGGCGGAGGTCGTGGAGGCTTTAATCGAGGTGGTGGAGGTGGCGGCTTCAACCGAGGCG
GCAGCAGCAACCACTTCCGAGGTGGAGGCGCGGTGGAGGCGCGCAATTTAGAGGCGGCGCAGGGG
AGGATTTGGACGAGGGGTGGCCGCGGAGGCTTTAACAAAGCCAAGACCAAGGACCTCCAGAACGTGTA
GTCTTATTAGGAGAGTTCCTGCATCCCTGTGAAGATGACATAGTTTGTAAATGTACCACAGATGAAAATA
AGGTGCCTTATTTCAATGCTCCTGTTTACTTAGAAAACAAGAACAATTTGAAAAGTGGATGAAATATT
TGGACAACTCAGAGATTTTTATTTTTCAGTTAAGTTGTCAGAAAACATGAAGGCTTCATCCTTTAAAAA
CTACAGAAGTTTTATATAGACCCATATAAGCTGCTGCCACTGCAGAGTTTTTACCTCGACCTCCAGGTG
AGAAAGGACCTCCAAGAGGTGGTGGCAGGGGAGGCCGAGGAGGAGGAAGAGGAGGAGGTGGCAGAGGTGG
TGGCAGAGGTGGTGGTTTTAGAGGTGGAAGAGGAGGTGGAGGTGGGGCTTCAGAGGAGGAAGAGGTGGT
GGTTTCAGAGGGAGAGGACAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG201481 representing NM_018983
 Red=Cloning site Green=Tags(s)

MSFRGGGRGGFNRRGGGGGFRGGSSNHFRGGGGGGGNGFRGGGRGGFGRGGRRGGFNKGQDQGPPEV
 VLLGEFLHPCEDDIVCKCTTDENKVPYFNAPVYLENKEQIGKVDEIFGQLRDFYFSVKLSENMKASSFKK
 LQKFYIDPYKLLPLQRF LPRPPGEKGP RGGGRGGRRGGGGRRGGGGFRGGRRGGGGGFRGGRRGG
 GFRGRGH

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_018983

ORF Size: 651 bp

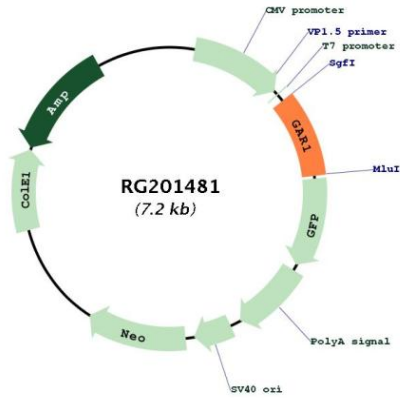
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_018983.3 , NP_061856.1
RefSeq Size:	1280 bp
RefSeq ORF:	654 bp
Locus ID:	54433
UniProt ID:	Q9NY12
Cytogenetics:	4q25
Domains:	Gar1
Protein Families:	Stem cell - Pluripotency
Gene Summary:	<p>This gene is a member of the H/ACA snoRNPs (small nucleolar ribonucleoproteins) gene family. snoRNPs are involved in various aspects of rRNA processing and modification and have been classified into two families: C/D and H/ACA. The H/ACA snoRNPs also include the DKC1, NOLA2 and NOLA3 proteins. These four H/ACA snoRNP proteins localize to the dense fibrillar components of nucleoli and to coiled (Cajal) bodies in the nucleus. Both 18S rRNA production and rRNA pseudouridylation are impaired if any one of the four proteins is depleted. These four H/ACA snoRNP proteins are also components of the telomerase complex. The encoded protein of this gene contains two glycine- and arginine-rich domains and is related to <i>Saccharomyces cerevisiae</i> Gar1p. Two splice variants have been found for this gene. [provided by RefSeq, Jul 2008]</p>

Product images:



Circular map for RG201481