

Product datasheet for **SC111294**

NOLA1 (GAR1) (NM_018983) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NOLA1 (GAR1) (NM_018983) Human Untagged Clone
Tag:	Tag Free
Symbol:	NOLA1
Synonyms:	NOLA1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC111294 sequence for NM_018983 edited (data generated by NextGen Sequencing) ATGTCCTTTTCGAGGCGGAGGTCGTGGAGCCTTTAATCGAGGTGGTGGAGGTGGCGGCTTC AACCGAGGCGGCAGCAGCAACCACTTCCGAGGTGGAGGCGCGGTGGAGGCGGCGCAAT TTCAGAGGCGGCGCAGGGAGGATTTGGACGAGGGGTGGCCGCGGAGGCTTTAACAAA GGCCAAGACCAAGGACCTCCAGAACGTGTAGTCTTATTAGGAGAGTTCCTGCATCCCTGT GAAGATGACATAGTTTGTAAATGTACCACAGATGAAAATAAGGTGCCTTATTTCAATGCT CCTGTTTACTTAGAAAACAAAGAACAAATTGGAAAAGTGGATGAAATATTTGGACAACCTC AGAGATTTTTATTTTCAGTTAAGTTGTCAGAAAACATGAAGGCTTCATCCTTTAAAAAA CTACAGAAGTTTTATATAGACCCATATAAGCTGCTGCCACTGCAGAGTTTTTACCTCGA CCTCCAGGTGAGAAAGGACCTCCAAGAGGTGGTGGCAGGGGAGGCCGAGGAGGAGGAAGA GGAGGAGGTGGCAGAGGTGGTGGCAGAGCGGTGGTTTTAGAGGTGGAAGAGGAGGTGGA GGTGGGGCTTCAGAGGAGGAAGAGGTGGTGGTTTCAGAGGGAGAGGACATTAA
	Clone variation with respect to NM_018983.3 69 t=>c



[View online »](#)

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_018983 unedited TAATACGACTCACTATAGGGCGGCCGAATTCGGCACGAGGATCAAGTTTCTGGTCTT TAAAAAATCTGTGGCGGTACGGTAACCGAGGAGGTTCCAGCGCGGCGGAAGTACCCCGC GGGTGGGTGTGTGCGCAAGGCCAGGGCCAGAGGGGCACGTGGCGCCGGGAGGAGAGAGAA TGTCTTTTCGAGGCGGAGGTCGTGGAGGCTTTAATCGAGGTGGTGGAGGTGGCGGCTTCA ACCGAGGCGGCAGCAGCAACCACTTCCGAGGTGGAGCGCGGTGGAGGCGCGGCAATT TCAGAGGCGGCGCAGGGGAGGATTTGGACGAGGGGGTGGCCCGGAGGCTTTAACAAAG GCCAAGACCAAGGACCTCCAGAAGCTGTAGTCTTATTAGGAGAGTTCTGCATCCCTGTG AAGATGACATAGTTTGTAAATGTACCACAGATGAAAATAAGGTGCCTTATTTCAATGCTC CTGTTTACTTAGAAAACAAAGAACAATTTGAAAAGTGGATGAAATATTTGGACAACTCA GAGATTTTATTTTTCAGTTAAGTTGTCAGAAAACATGAAGGCTTCATCCTTTAAAAAAC TACAGAAGTTTTATAGACCCATATAAGCTGCTGCCACTGCAGAGGTTTTTACCTCGAC CTCCAGGTGAGAAAGGGACCTCCAAGAGTGGTGGCAGGGGAGGCCGAGGAGGAAGAAGAG GANGANGTGGCANANGTGGTGGCANAGGCNGTGGTTNTANAGGTNGGAAAAGANGCNTGA GGTGGGGCTTCANAGANGAAGAGGTGGTGGGTTTCAGAGGGAGAGACATTAGTAAACAGT GACGACATCACAGTGACTCTGCATAACTGATGACTGTTCTCTATGATTGAACTGNTCTG ACAGTCTGAGATCTGTCTTTTGCATGGTCTAATGCGCTCTGCAGGCACGATATGATTGT</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_018983 unedited CCGCAATCTAGAGTCGAGTT TTTTTTTTTTTTTTAAAGGGAAAAAAACACTTTTTTTTTTAAAAATTCAAATTTCTTCAA GGAAAACTCCTATCCTTTTTTTGAGCCCCACAGAGGGCCCGCCCTGGACAAAACATTA AAAAAACTTGTTTCATGCCCTTTTAAAACAAAATCACTTTTCCGTTGCACCTTTCATGAG GCTGACATTTTAAACCCCTTGGCATAAAAAGGACCAAAATCTTCAAACCTGTTCAAAAAA CAAGTTTTCCAATCCATAGTAAAAACCCATCATGCCGTTAATGCAAAAAGACAACGGGGGA TGGCTGGCAACGGGTTCACTTAAGGGCCCTCCCTCTGAAACCACCACCTTTTCTCCTT TGAAGCCCCACCTCCACCTCTTTTTCCACCTTAAAACCACCGTCTTTGCCACCACCTT TGCCACCTTCTTCTTTTCTCCCTCCCGCTGGGCTCCCGCCCGCCATCTTTGGGGGGCCCTT CTACCTGGAGGGCAAGGAAAAAACCCCTGGGTGGCACCACCTTATATGGGCCTATTAA AACTCCCGGACGTTTTTAAAGGAGAAAACCTCCCTGTCCGGTGACAACCTAACCAGAAAA AAAAAATCCCGGAGCCGCCACAAAATTTCAACCCCTTCCCAACTGTTTCTTTGTTTT TTAACAAACCGGACACCTCCACACAGGCCTCTCTTTTTATTGGGGGACATTAACCCCT TGCCCTCTTTACGGGCGCGGCCACTTTTTTCAATAAACACCCTTCCCGCGCCCGG CTTTGGCCCTCCATTAATTTCTGGCGCACCTCCCGCCAAACCTCCCTTCTGTTATC CTCCTAATCCGCCCTTTCCCGCATCCTCCCTCCCGCAGTGCCAGTTTTTCCCGCCG CCCCCCTCTCATTTCACACGC</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_018983
Insert Size:	1160 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_018983.2](#), [NP_061856.1](#)

RefSeq Size: 1273 bp

RefSeq ORF: 654 bp

Locus ID: 54433

UniProt ID: [Q9NY12](#)

Cytogenetics: 4q25

Domains: Gar1

Protein Families: Stem cell - Pluripotency

Gene Summary: 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 *Saccharomyces cerevisiae* Gar1p. Two splice variants have been found for this gene. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (1) contains a region of additional sequence in the 5' UTR when compared to variant 2. The encoded protein is identical for both transcript variants.