

## Product datasheet for **MG202402**

### Nola1 (BC021873) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Nola1 (BC021873) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nola1
Synonyms:	GAR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG202402 representing BC021873 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCTTCCGAGGCGGAGGTCGCGGAGGCTTTAATCGCGGTGGTGGAGGCGGAGGCTTCAACCGGGAG  
GCGGCGGCGGCAGTTTCAGGGGCGGAGGCGGCGGCGGCAGTTTCAGGGGCGGCGGCGGAGGAGGATTTGG  
ACGAGGGGCGGTCGTGGAGGCTTTAATAAATTTCAAGATCAAGGGCCTCAGAACGTGTCGTCTTGTTA  
GGAGAATTCATGCATCCCTGTGAAGATGACATCGTGTGTAATGTACCACCGAGGAGAACAAGGTGCCCT  
ACTTCAACGCCCTGTTTACTTAGAAAACAAGAGCAAGTCGGGAAAGTGGATGAGATATTTGGACAGCT  
TAGAGATTTTTATTTTTAGTTAAGTTGTGAGAAAACATGAAGGCATCTTCCTTTAAAAAGCTACAGAAG  
TTCTATATAGACCCATACAAGCTGCTGCCGCTGCAGAGGTTTCTGCCTCGTCTCCTGGTGGAGAAAGGAC  
CTCCCAGAGGTGGCGCGGTGGCGGCAGGGGAGGTCGAGGAGGAGGAAGAGGAGGCGGTGGCCGAGGTGG  
TGAAGAGGTGGTGGTTTTAGAGGAGGCAGAGGAGGAGGTGGGGGCTTCAGAGGAGGCCGAGGAGGCGGC  
GGATTCCGAGGAAGGGGACAT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG202402 representing BC021873  
Red=Cloning site Green=Tags(s)

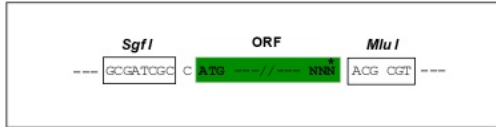
MSFRGGGRGGFNRRGGGGGFNRRGGGGGSFRGGGGGSFRGGGRGGFGRGGGRGGFNKFQDQGPPERVLL  
 GEFMHPCEDDIVCKCTTEENKVPYFNAPVYLENKEQVGKVEIFGQLRDFYFSVKLSENMKASSFKKLQK  
 FYIDPYKLLPLQRFLPRPPGEKGPPIRRGGGGGRGGGRGGGGRRGGGGGFRGGRRGGGGFRGGRRGG  
 GFRGRGH

TRTRPLE - GFP Tag - V

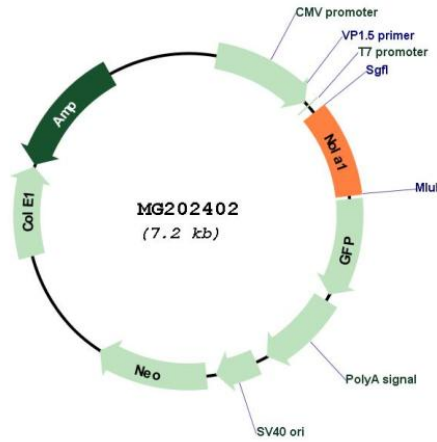
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** BC021873

**ORF Size:** 653 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">BC021873</a> , <a href="#">AAH21873</a>
<b>RefSeq Size:</b>	1145 bp
<b>RefSeq ORF:</b>	653 bp
<b>Locus ID:</b>	68147
<b>Cytogenetics:</b>	3 G3
<b>Gene Summary:</b>	Required for ribosome biogenesis and telomere maintenance. Part of the H/ACA small nucleolar ribonucleoprotein (H/ACA snoRNP) complex, which catalyzes pseudouridylation of rRNA. This involves the isomerization of uridine such that the ribose is subsequently attached to C5, instead of the normal N1. Each rRNA can contain up to 100 pseudouridine ("psi") residues, which may serve to stabilize the conformation of rRNAs. May also be required for correct processing or intranuclear trafficking of TERC, the RNA component of the telomerase reverse transcriptase (TERT) holoenzyme (By similarity).[UniProtKB/Swiss-Prot Function]