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Product datasheet for MR202791

Gar1 (NM_026578) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gar1 (NM_026578) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gar1
Synonyms:	AA409823; AI326794; C430047J18Rik; Nola1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR202791 representing NM_026578
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCTTTCCGAGGCGGAGGTCGCGGAGGCTTTAATCGCGGTGGTGGAGGCGGAGGCTTCAACCGTGGCG
GCGGCAGCAACAACCACTTCCGAGGGGGCGGCGGAGGCGGCGGCGGCAGTTTCAGGGGCGGAGGCGGCGG
CGGCGGCGGCAGTTTCAGGGGCGGCGGCCGAGGAGGATTTGGACGAGGGGGCGGTCGTGGAGGCTTTAAT
AAATTTCAAGATCAAGGGCCTCCAGAACGTGTCGTCTTGTTAGGAGAATTCATGCATCCCTGTGAAGATG
ACATCGTGTGTAAATGTACCACCGAGGAGAACAAGGTGCCCTACTTCAACGCCCCTGTTTACTTAGAAAA
CAAAGAGCAAGTCGGGAAAGTGGATGAGATATTTGGACAGCTTAGAGATTTTTATTTTTCAGTTAAGTTG
TCAGAAAACATGAAGGCATCTTCCTTTAAAAAGCTACAGAAGTTCTATATAGACCCATACAAGCTGCTGC
CGCTGCAGAGGTTTCTGCCTCGTCCTCCTGGTGAGAAAGGACCTCCCAGAGGTGGCGGCGGTGGCGGCAG
GGGAGGTCGAGGAGGAGGAAGAGGAGGCGGTGGCCGAGGTGGTGGAAGAGGTGGTGGTTTTAGAGGAGGC
AGAGGAGGAGGTGGGGGCTTCAGAGGAGGAAGAGGAGGTGGCGGATTCCGAGGAAGGGGACAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

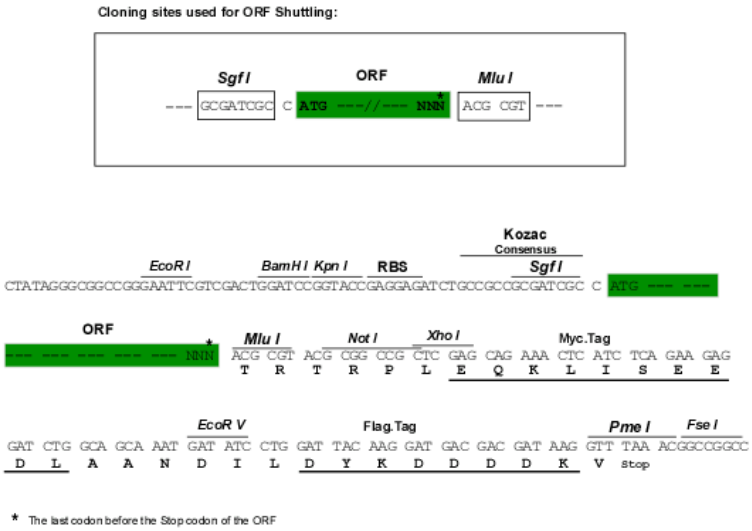
>MR202791 representing NM_026578
Red=Cloning site Green=Tags(s)

MSFRGGGRGGFNRGGGGGGFNRGGGSNNHFRGGGGGGGGSFRGGGGGGGGSFRGGGRGGFGRGGGRGGFN
KFQDQGPPERVVLLGEFMHPCEDDIVCKCTTEENKVPYFNAPVYLENKEQVGKVDEIFGQLRDFYFSVKL
SENMKASSFKKLQKFYIDPYKLLPLQRFLPRPPGEKGPPRGGGGGGRGGRGGGRGGGGRGGGRGGGFRGG
RGGGGGFRGGRGGGGFRGRGH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_026578

ORF Size: 693 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_026578.3, NP_080854.1

RefSeq Size: 1271 bp

RefSeq ORF: 696 bp

Locus ID: 68147

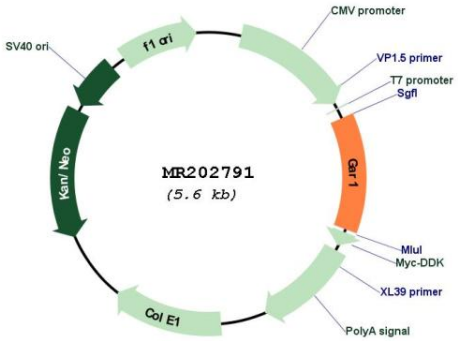
UniProt ID: Q9CY66

Cytogenetics: 3 G3

MW: 23.9 kDa

Gene Summary: 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]

Product images:



Circular map for MR202791