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Product datasheet for MC210697

Gar1 (NM_026578) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gar1 (NM_026578) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gar1
Synonyms:	AA409823; AI326794; C430047J18Rik; Nola1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC210697 representing NM_026578 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGTCTTTCCGAGGCGGAGGTCGCGGAGGCTTTAATCGCGGTGGTGGAGGCGGAGGCTTCAACCGTGGCG GCGGCAGCAACAACCACTTCCGAGGGGGCGGCGGAGGCGGCGGCGGCAGTTTCAGGGGCGGAGGCGGCGG CGGCGGCGGCAGTTTCAGGGGCGGCGGCCGAGGAGGATTTGGACGAGGGGGCGGTCGTGGAGGCTTTAAT AAATTTCAAGATCAAGGGCCTCCAGAACGTGTCGTCTTGTTAGGAGAATTCATGCATCCCTGTGAAGATG ACATCGTGTGTAAATGTACCACCGAGGAGAACAAGGTGCCCTACTTCAACGCCCCTGTTTACTTAGAAAA CAAAGAGCAAGTCGGGAAAGTGGATGAGATATTTGGACAGCTTAGAGATTTTTATTTTTCAGTTAAGTTG TCAGAAAACATGAAGGCATCTTCCTTTAAAAAGCTACAGAAGTTCTATATAGACCCATACAAGCTGCTGC CGCTGCAGAGGTTTCTGCCTCGTCCTCCTGGTGAGAAAGGACCTCCCAGAGGTGGCGGCGGTGGCGGCAG GGGAGGTCGAGGAGGAGGAAGAGGAGGCGGTGGCCGAGGTGGTGGAAGAGGTGGTGGTTTTAGAGGAGGC AGAGGAGGAGGTGGGGGCTTCAGAGGAGGAAGAGGAGGTGGCGGATTCCGAGGAAGGGGACATTAG ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Restriction Sites:	SgfI-MluI
ACCN:	NM_026578
Insert Size:	696 bp

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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_026578.3, NP_080854.1
RefSeq Size:	1271 bp
RefSeq ORF:	696 bp
Locus ID:	68147
UniProt ID:	Q9CY66
Cytogenetics:	3 G3
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]