

Product datasheet for **RN215271**

Lyar (NM_001011911) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Lyar (NM_001011911) Rat Untagged Clone
Tag: Tag Free
Symbol: Lyar
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN215271 representing NM_001011911
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTATTTTTACATGCAATGCATGTGGTGAATCCGTGAAGAAAATACAGGTGGAAAAGCAGTGTCTA
TTTGCAGAAACTGTGAATGTCTTTCTTGCACTGACTGTGGAAAGATTTCTGGGGTGACGACTACAAAA
CCATGTGAAATGCATCAGTGAAGATCAGAAATACGGAGGCAAAGGCTATGAAGCCAAAACACACAAAGGT
GATGTGAAACAGCAGGCATGGATTAGAAAATTAATGAGTTAATAAAGAAACCAACGTCAGCCCCAAGG
TGCGAGAACTTTTGCAGCAAATAGTGCTTTTGACAATGTTCCAGAAAAAGGCGAAGTTTCAGAACTG
GATGAGGAACAGCCTGAAAGTGCACAGCGACTCTGTTCTGGAGCAGGTGTGGAACATCTTCTCCGAGCA
GCCAGCAGCGAGCAAGATCAGCAGCCACCCAGCCACATGGCAAAGCCAAATACAGAGGTCCCCACTAAGG
TTCCATCCAAAAACAATGGCACCACAGAGGAGCAAACAGAGGCAAAGAAGAATAAAAGAGAAAGGAA
GGAAGAACGACAGAAGAGCAGGAAGAAAGAGAAGAAAGAGCTGAAGTTAGAAAACCACAGGAAAATCTG
AAGGGCCAGAAGCAAAGAAGCGCAAAAAGGGCCAGGAGGCCGGACATGAGGCTGGTGGGAGGATGCCG
CGGAGGCCAACGGCGCCCAGAGAAGAAGAGAGCCGGGATGCACAGGCTTCTGAAGAGGGAGCAGACAG
AAATGGGGCCCCCGGAGGATGCTGATGAGGGGCCGACCAAGACAGCAGGAAAACGGAAGCGGCAA
AAGCACTCAGAAGTTGAGTCTGATAACAAGAAAAAAGATGAAGTTGCCAGGGCAGCCTGAAGAGGGAG
AGCCTGAGGACCATGAGGCTCCATCAAAAGGTAATTCAACTGGAAGGGGACCATTAAGCTGTTCTGAA
ACAGGCTCCAGACAACGAGATATCAGTCAAGAAGTTAAAGAAAAAGGTTATAGCTCAGTACCATGCGGTG
ATGAGTGACCATCACACATCGGAGGAGGAGCTCCTGGCCATCTTCAACAAGAAGATCAGCAGGAACCCCA
CCTTAAGGTGCTGAAGGACAAAGTTAAGCTTCTGAAG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001011911



Insert Size:	1161 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:	<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:	<u>NM_001011911.1</u> , <u>NP_001011911.1</u>
RefSeq Size:	1511 bp
RefSeq ORF:	1161 bp
Locus ID:	289707
UniProt ID:	<u>Q6AYK5</u>
Cytogenetics:	14q21
Gene Summary:	Plays a role in the maintenance of the appropriate processing of 47S/45S pre-rRNA to 32S/30S pre-rRNAs and their subsequent processing to produce 18S and 28S rRNAs. Also acts at the level of transcription regulation. Along with PRMT5, binds embryonic globin promoter (By similarity). Represses the expression of embryonic globin Hbb-y gene (By similarity). In neuroblastoma cells, may also repress the expression of oxidative stress genes, including CHAC1, HMOX1, SLC7A11, ULBP1 and that encoding the small nucleolar RNA SNORD41. Preferentially binds to a DNA motif containing 5'-GGTTAT-3' (By similarity). Stimulates phagocytosis of photoreceptor outer segments by retinal pigment epithelial cells. Prevents NCL self-cleavage, maintaining a normal steady-state level of NCL protein in undifferentiated embryonic stem cells (ESCs), which in turn is essential for ESC self-renewal (By similarity). [UniProtKB/Swiss-Prot Function]