

Product datasheet for **RR215271**

Lyar (NM_001011911) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Lyar (NM_001011911) Rat Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Lyar
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 ORF Nucleotide Sequence: >RR215271 representing NM_001011911
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGTATTTTTACATGCAATGCATGTGGTGAATCCGTGAAGAAAATACAGGTGGAAAAGCAGGTGTCTA
 TTTGCAGAACTGTGAATGTCTTTCTTGCATTGACTGTGGGAAAGATTTCTGGGGTGACGACTACAAAA
 CCATGTGAAATGCATCAGTGAAGATCAGAAATACGGAGGCAAAGGCTATGAAGCCAAAACACACAAAGGT
 GATGTGAAACAGCAGGCATGGATTACAGAAAATTAATGAGTTAATAAAGAAACCAACGTCAGCCCCAAGG
 TGCGAGAACTTTTGCAGCAAATAGTGCTTTTGACAATGTTCCAGAAAAAGGCGAAGTTTCAGAACTG
 GATGAGGAACAGCCTGAAAGTGCACAGCGACTCTGTTCTGGAGCAGGTGTGGAACATCTTCTCCGAGCA
 GCCAGCAGCGAGCAAGATCAGCAGCCACCCAGCCACATGGCAAAGCCAAATACAGAGGTCCCCACTAAGG
 TTCCATCCACAAAAACAATGGCACCACAGAGGAGCAAACAGAGGCAAAGAAGAATAAAAGAGAAAGGAA
 GGAAGAACGACAGAAGAGCAGGAAGAAAGAGAAGAAAGAGCTGAAGTTAGAAAACCACAGGAAAATCTG
 AAGGGCCAGAAGCAAAGAAGCGCAAAAAGGGCCAGGAGGCCGGACATGAGGCTGGTGGGGAGGATGCCG
 CGGAGGCCAACGGCGCCCAGAGAAGAAGAGAGCCGGGATGCACAGGCTTCTGAAGAGGGAGCAGACAG
 AAATGGGGCCCCCGGGAGGATGCTGATGAGGGGCCGACCAAGACAGCAGCAAGAAAACGGAAGCGGCAA
 AAGCACTCAGAAGTTGAGTCTGATAACAAGAAAAAAGATGAAGTTGCCAGGGCAGCCTGAAGAGGGAG
 AGCCTGAGGACCATGAGGCTCCATCAAAAGGTAATTCAACTGGAAGGGGACCATTAAGCTGTTCTGAA
 ACAGGCTCCAGACAACGAGATATCAGTCAAGAAGTTAAAGAAAAGGTTATAGCTCAGTACCATGCGGTG
 ATGAGTGACCATCACATCGGAGGAGGAGCTCCTGGCCATCTTCAACAAGAAGATCAGCAGGAACCCCA
 CCTTTAAGGTGCTGAAGGACAAAGTTAAGCTTCTGAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR215271 representing NM_001011911
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MVFFTCNACGESVKKIQVEKHVSICRNCECLSCIDCGKDFWGDDYKNHVKCI SEDQKYGGKGYEAKTHKG
 DVKQQAWIQKINELIKKPNVSPKVRELLQQISAFDNVPRKKAKFQNWMRNSLKVHSDSVLEQVWNIFSEA
 ASSEQDQPPSHMAKPNTVEVPTKVPSTKTNGTTEEQTEAKKNKRERKEERQKSRKKEKELKLENHQENL
 KGQKPKKRKKGQEAGHEAGGEDAAEANGAPEKKRARDAQASEEGADRNGGPAEDADEGPTKTAAGKRKRQ
 KHSEVESDNKKKMKLPGQPEEGEPEDHEAPSKGKFNWKGTIKAVLKQAPDNEISVKLKKKVKVIAQYHAV
 MSDHHTSEEELLAIFNKKISRNPFTFKVLKDKVKLLK

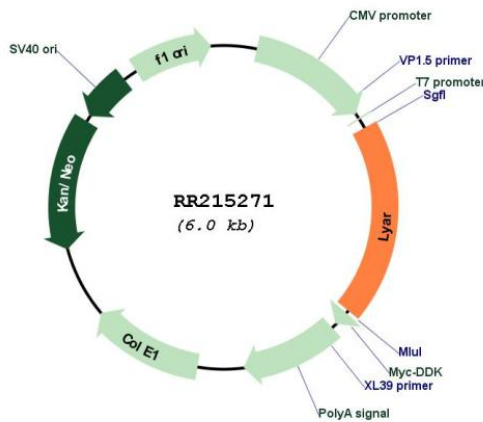
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001011911

ORF Size:	1158 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:	<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:	NM_001011911.1 , NP_001011911.1
RefSeq Size:	1511 bp
RefSeq ORF:	1161 bp
Locus ID:	289707
UniProt ID:	Q6AYK5
Cytogenetics:	14q21
MW:	43.7 kDa
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]