

## Product datasheet for MC208919

### Lyar (NM\_025281) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Lyar (NM\_025281) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Lyar  
**Synonyms:** MLZ-264  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC208919 representing NM\_025281  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGTATTTTTACATGCAATGCATGTGGTGAATCCGTGAAGAAAATACAAGTGGAAAAGCATGTGTCTA  
 ACTGCAGAAACTGTGAATGTCTTCTCCTGCATTGACTGTGGGAAAGATTTCTGGGGTGATGACTACAAAAG  
 CCATGTGAAGTGCATCAGTGAAGTACGAAAGTACGGAGGCAAAGGCTATGAAGCCAAGACACACAAAGGT  
 GATGCAAAACAGCAGGCATGGATTTCAGAAAATTAATGAGTTAATAAAGAAACCCAACGTCAGCCCCAAGG  
 TGCGAGAACTTTTGCAGCAAATCAGTGCTTTTGATAATGTTCCAGAAAAAAGGGGAAGTTTCAGAACTG  
 GATGAAAAACAGCCTGAAAGTGCACAGCGACTCCGTTCTAGAGCAGGTGTGGGATATCTTCTCCGAAGCA  
 TCCAGCAGTGAGCAAGATCAGCAGCAGCCACCCAGCCACACGGCCAAGCCACATGCAGAGATGCCGATCA  
 CTAAGTTCCATCTGCAAAAACAATGGCACCACAGAAGAGCAAACCGAGGCGAAGAAGAATAAAAGAGA  
 AAGGAAGGAGAACGGCAGAAAAACAGGAAGAAAGAGAAGAAAGAGCTGAAGCTAGAAAACACCAGGAA  
 AACCTGAGGGGCCAGAAGCCAAAGAAGCGCAAGAAGAACAGGAGGCCGGACATGAGGCTGCTGGGGAGG  
 AGGCCGCCGAGGCCAGCGGCCACCGGAGAAGAAGAAAGCCAGGAGGACAGGCTTCTGAAGGGGAGC  
 AGACAGAAAATGGGGCCCTGGGGAGGATGCTGCCGAGGGCAGACCAAGACAGCAGGGAACCGGAAG  
 CGGCCAAAGCACTCAGGAGCTGAGTCTGGTTACAAGAAAAAAGATGAAGTTACCAGAGCAGCCTGAAG  
 AGGGAGAGGCCAAGGACCAGGCTCCATCGAAAGGTAATTCAACTGGAAGGGGACCATTAAAGCTGT  
 TTTGAAACAGGCTCCAGACAACGAGATATCAGTCAAGAAGTTAAAGAAAAAGGTTATAGCTCAGTACCAT  
 GCGGTGATGAACGACCATCACATCGGAGGAGGAGCTCCTGGCCATCTTCAACAGGAAGATCAGCAGGA  
 ACCCCACCTTTAAGGTGCTGAAGGACAGAGTAAAGCTTCTGAAGTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI



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<b>ACCN:</b>	NM_025281
<b>Insert Size:</b>	1167 bp
<b>OTI Disclaimer:</b>	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).
<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>	<u><a href="#">NM_025281.3</a></u> , <u><a href="#">NP_079557.2</a></u>
<b>RefSeq Size:</b>	1568 bp
<b>RefSeq ORF:</b>	1167 bp
<b>Locus ID:</b>	17089
<b>UniProt ID:</b>	<u><a href="#">Q08288</a></u>
<b>Cytogenetics:</b>	5 20.29 cM
<b>Gene Summary:</b>	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 (By similarity). 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 (PubMed:25092918). 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 (By similarity). Preferentially binds to a DNA motif containing 5'-GGTTAT-3' (By similarity). Stimulates phagocytosis of photoreceptor outer segments by retinal pigment epithelial cells (PubMed:25735755). 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 (PubMed:19489080).[UniProtKB/Swiss-Prot Function]