

## Product datasheet for **SC322377**

### LYAR (NM\_017816) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LYAR (NM_017816) Human Untagged Clone
Tag:	Tag Free
Symbol:	LYAR
Synonyms:	ZC2HC2; ZLYAR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for SC322377  
GCCTGAGAGGCAGGTAGCTGCGGCGCTGGGCTGGCGGCGGAGTCCACGTGCTCCCCGC  
GGCCGGTTGAAACCGTTGGCGGCGCTGGCTGAGAGGCAATGTTTGTCTTCCATTGG  
AGTGACTGAATTTCTACATGACGCTTTTTGACAAGACTTAAACCTGTCTTGGATAGAG  
AATATTTAGCCATTTACCTAAAAATGGTATTTTTTACATGCAATGCATGTGGTGAATCAG  
TGAAGAAAATACAAGTGGAAAAGCATGTGTCTGTTTGCAGAACTGTGAATGCCTTTCTT  
GCATTGACTGCGGTAAAGATTTCTGGGCGATGACTATAAAAAACCACGTGAAATGCATAA  
GTGAAGATCAGAAGTATGGTGGCAAAGGCTATGAAGGTAACCACAAAGGCGACATCA  
AACAGCAGGCGTGGATTCAGAAAATTAGTGAATTAATAAAGAGACCCAATGTCAGCCCCA  
AAGTGAGAGAACTTTTAGAGCAAATTAGTGCTTTTGACAACGTTCCAGGAAAAAGGCAA  
AATTTTCAGAATTGGATGAAGAACAGTTTTAAAAGTTCATAATGAATCCATTCTGGACCAGG  
TGTGGAATATCTTTCTGAAGCTTCCAACAGCGAACCAAGTCAATAAGGAACAGGATCAAC  
GGCCACTCCACCCAGTGGCAAATCCACATGCAGAAATCTCCACCAAGGTTCCAGCCTCCA  
AAGTGAAGACGCCGTGGAAACAGCAAGGGGAGGTGAAGAAGAATAAAAGAGAAAAGAAAGG  
AAGAACGGCAGAAAGAAAAGGAAAAGAGAAAAGAAAAGAACTAAAGTTAGAAAACCACCAGG  
AAAACCAAGGAATCAGAAGCCTAAGAAGCGCAAAAAGGGACAGGAGGCTGACCTTGAGG  
CTGGTGGGGAGGAAGTCCCTGAGGCCAATGGCTCTGCAGGGAAGAGGAGCAAGAAGAAGA  
AGCAGCGCAAGGACAGCGCCAGTGAGGAAGAGGCACGCGTGGGCGCAGGGAAGAGGAAGC  
GGAGGCACTCGGAAGTTGAAACAGATTCTAAGAAGAAAAGATGAAGCTCCAGAGCATC  
CTGAGGGCGGAGAACCAGAAGACGATGAGGCTCCTGCAAAAGGTAATCAACTGGAAGG  
GAACTATTAAGCAATTCTGAAACAGGCCCCAGACAATGAAATAACCATCAAAAAGCTAA  
GGAAAAAGGTTTTAGCTCAGTACTACACAGTGACAGATGAGCATCACAGATCCGAAGAGG  
AACTCCTGGTCATCTTTAACAAGAAAATCAGCAAGAACCCTACCTTTAAGTTATTAAGG  
ACAAAGTCAAGCTTGTGAAATGAACATTTGTGTATTTAAAAATTGAATCCATTCTGCTGA  
CTTCTTCTTCACTGCTGTTTTAAAAATGTGTAATGAATTCTAACAACTCAAATTTTGC  
TTTTTGAAGCTGTATTTTTAAGTTAAGAAAAAATATATTTTTGGTATAACTTTTATGAAA  
AAAAAAAAAAAA



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<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_017816
<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>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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>	<a href="#">NM_017816.1</a> , <a href="#">NP_060286.1</a>
<b>RefSeq Size:</b>	1598 bp
<b>RefSeq ORF:</b>	1140 bp
<b>Locus ID:</b>	55646
<b>UniProt ID:</b>	<a href="#">Q9NX58</a>
<b>Cytogenetics:</b>	4p16.3
<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 (PubMed:24495227). Also acts at the level of transcription regulation. Along with PRMT5, binds the gamma-globin (HBG1/HBG2) promoter and represses its expression (PubMed:25092918). In neuroblastoma cells, may also repress the expression of oxidative stress genes, including CHAC1, HMOX1, SLC7A11, ULBP1 and SNORD41 that encodes a small nucleolar RNA (PubMed:28686580). Preferentially binds to a DNA motif containing 5'-GGTTAT-3' (PubMed:25092918). Stimulates phagocytosis of photoreceptor outer segments by retinal pigment epithelial cells (By similarity). Prevents nucleolin/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] Transcript Variant: This variant (1) represents the longer transcript. Both variants 1 and 2 encode the same protein.