

## Product datasheet for **SC202298**

### LYAR (NM\_017816) Human 3' UTR Clone

#### Product data:

**Product Type:** 3' UTR Clones  
**Product Name:** LYAR (NM\_017816) Human 3' UTR Clone  
**Vector:** pMirTarget (PS100062)  
**Symbol:** LYAR  
**Synonyms:** ZC2HC2; ZLYAR  
**ACCN:** NM\_017816  
**Insert Size:** 219 bp  
**Insert Sequence:** >SC202298 3' UTR clone of NM\_017816  
The sequence shown below is from the reference sequence of NM\_017816. The complete sequence of this clone may contain minor differences, such as SNPs. **Red**=Cloning site  
**Blue**=Stop Codon

CAATTGGCAGAGCTCAGAATTCA**GCGATCGC**

GTTATTAAGGACAAAGTCAAGCTTGTGAAA**TGA**ACATTTGTGTATTTAAAAATTGAATCCATTCTGCTG  
ACTTCTCCTTTCACTGCTGTTTATAAAATGTGAATGAATTCTAACAACTCAAATTTGCTTTTGAAG  
CTGTATTTTAAAGTTAAGAAAATATATTTTTGGTATACTTTTATGAGAAAAATAAATATATTCTGGTC  
CAAACCTCT

**ACGCGT**AAGCGGCCGCGGCATCTAGATTCTGAAGAAAATGACCG

**Restriction Sites:** SgfI-MluI

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).

**Components:** The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

**RefSeq:** [NM\\_017816.2](#)



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**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 (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]

**Locus ID:**

55646