

## Product datasheet for **SC202297**

### LYAR (NM\_001145725) Human 3' UTR Clone

#### Product data:

Product Type:	3' UTR Clones
Product Name:	LYAR (NM_001145725) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	LYAR
Synonyms:	ZC2HC2; ZLYAR
ACCN:	NM_001145725
Insert Size:	219 bp
Insert Sequence:	>SC202297 3' UTR clone of NM_001145725 The sequence shown below is from the reference sequence of NM_001145725. The complete sequence of this clone may contain minor differences, such as SNPs. <b>Red</b> =Cloning site <b>Blue</b> =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:	<u><a href="#">NM_001145725.1</a></u>



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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