

## Product datasheet for **SC326467**

### LYAR (NM\_001145725) Human Untagged Clone

#### Product data:

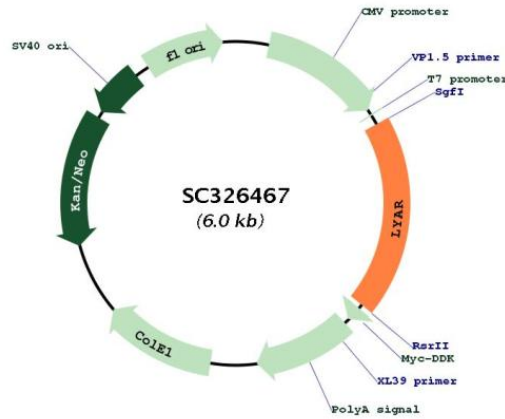
Product Type:	Expression Plasmids
Product Name:	LYAR (NM_001145725) Human Untagged Clone
Tag:	Tag Free
Symbol:	LYAR
Synonyms:	ZC2HC2; ZLYAR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC326467 representing NM_001145725. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGTATTTTTACATGCAATGCATGTGGTGAATCAGTGAAGAAAATACAAGTGGAAAAGCATGTGTCT
GTTTGCAGAACTGTGAATGCCTTTCTTGCATTGACTGCGGTAAGATTCTGGGCGTACTATAAAA
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GGCGACATCAAACAGCAGGCGTGGATTCAGAAAATTAGTGAATTAATAAGAGACCCAATGTCAGCCCC
AAAGTGAGAGAACTTTTAGAGCAAATTAGTGCTTTTGACAACGTTCCAGGAAAAAGGCAAAATTCAG
AATTGGATGAAGAACAGTTTAAAAGTTCATAATGAATCCATTCTGGACCAGGTGTGAATATCTTTTCT
GAAGCTTCCAACAGCGAACCAGTCAATAAGGAACAGGATCAACGGCCACTCCACCCAGTGGCAAATCCA
CATGCAGAAATCTCCACCAAGGTTCCAGCCTCCAAAGTGAAGACGCCGTTGGAACAGCAAGGGGAGGTG
AAGAAGATAAAAAGAGAAAAGAAAGGAAGAACGGCAGAAGAAAAGGAAAAGAGAAAAGAAAGAACTAAAG
TTAGAAAACCACAGGAAAACCAAGGAATCAGAAGCCTAAGAAGCGCAAAAAGGACAGGAGGCTGAC
CTTGAGGCTGGTGGGAGGAAGTCCCTGAGGCCAATGGCTCTGCAGGGAAGAGGAGCAAGAAGAAGAAG
CAGCGCAAGGACAGCGCCAGTGAGGAAGAGGCACGCGTGGGCGCAGGGAAGGAAGCGGAGGCACTCG
GAAGTTGAAACAGATTCTAAGAAGAAAAGATGAAGCTCCAGAGCATCTGAGGCGGAGAACACAGAA
GACGATGAGGCTCTGCAAAAGGTAATTCAACTGGAAGGGAATTAATAAGCAATCTGAAACAGGCC
CCAGACAATGAAATAACCATCAAAAAGCTAAGGAAAAAGGTTTTAGCTCAGTACTACACAGTGACAGAT
GAGCATCACAGATCCGAAGAGGAACTCCTGGTCTCTTTAACAAGAAAATCAGCAAGAACCCTACCTTT
AAGTTATTAAGGACAAAGTCAAGCTTTGTGAAATGA
AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGAT
ATCCTGGATTACAAGGATGACGACGATAAGGTTTAA
```

Restriction Sites: SgfI-RsrII



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**Plasmid Map:**


**ACCN:** NM\_001145725

**Insert Size:** 1140 bp

**OTI Disclaimer:** 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).

**OTI Annotation:** 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.

**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:**

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\\_001145725.1](#)

**RefSeq Size:** 1486 bp

**RefSeq ORF:** 1140 bp

**Locus ID:** 55646

**UniProt ID:** [Q9NX58](#)

**Cytogenetics:** 4p16.3

**MW:** 43.6 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 (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 (2) differs in the 5' UTR compared to variant 1. Both variants 1 and 2 encode the same protein.