

Product datasheet for **SC113969**

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
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_017816, the custom clone sequence may differ by one or more nucleotides

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ATGGTATTTTTACATGCAATGCATGTGGTGAATCAGTGAAGAAAATACAAGTGGAAAAGCATGTGTCTG
TTTGCAGAAACTGTGAATGCCTTTCTTGCATTGACTGCGGTAAGATTTCTGGGGCGATGACTATAAAAA
CCACGTGAAATGCATAAGTGAAGATCAGAAGTATGGTGGCAAAGGCTATGAAGGTAAAACCCACAAAGGC
GACATCAAACAGCAGGCGTGGATTAGAAAATTAGTGAATTAATAAGAGACCCAATGTCAGCCCCAAAG
TGAGAGAACTTTTAGAGCAAATTAGTGCTTTTGACAACGTTCCAGGAAAAGGCAAAATTCAGAAATTG
GATGAAGAACAGTTTAAAGTTCATAATGAATCCATTCTGGACCAGGTGTGGAATATCTTTCTGAAGCT
TCCAACAGCGAACCAAGTCAATAAGGAACAGGATCAACGGCCACTCCACCCAGTGGCAATCCACATGCAG
AAATCTCCACCAAGGTTCCAGCCTCAAAGTGAAGACGCGGTGGAACAGCAAGGGGAGGTGAAGAAGAA
TAAAGAGAAAAGAAAGGAAGAACGGCAGAGAAGAAAAGGAAAAGAGAAAAGAAAGAACTAAAGTTAGAAAAC
CACCAGGAAAACCAAGGAATCAGAAGCCTAAGAAGCGCAAAAAGGGACAGGAGGCTGACCTTGAGGCTG
GTGGGGAGGAAGTCCCTGAGGCCAATGGCTCTGCAGGGAAGAGGAGCAAGAAGAAGAAGCAGCGCAAGGA
CAGCGCCAGTGAAGAAGAGGCACGCGTGGGCGCAGGGAAGAGGAAGCGGAGGCACTCGGAAGTTGAAACA
GATTCTAAGAAGAAAAGATGAAGCTCCAGAGCATCTGAGGGCGGAGAACAGAAAGCATGAGGCTC
CTGCAAAAAGTAAATCAACTGGAAGGAACTATTAAAGCAATTCTGAAACAGGCCCCAGACAATGAAAT
AACCATCAAAAAGCTAAGGAAAAAGTTTTAGCTCAGTACTACACAGTGACAGATGAGCATCACAGATCC
GAAGAGGAACTCCTGGTCATCTTTAACAAAGAAAATCAGCAAGAACCCTACCTTTAAGTTATTAAGGACA
AAGTCAAGCTTGTGAAATGA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_017816 unedited ACTATAGGGGGCGGCCGCGTAATTCGGCACGAGGCCGCGCCCGAGCGGACTGCGGGGCGC CCCTGCGGCCCGGGCCCGCCGCGGACCAGCCCCAACTGAGCGGGAGCGAAAGCGGCGG CGGCCTCCGGCTCAGACGCAAAGTTCGCTGCCTTCCATTGGAGTGACTGAATTTCTACAT GACGGCTTTTTGACAAGACTTAAACCTGTCTTGGATAGAGAATATTTAGCCATTACCT AAAAATGGTATTTTTACATGCAATGCATGTGGTGAATCAGTGAAGAAAAACAAGTGA AAAGCATGTGTCTGTTTGCAGAACTGTGAATGCCTTTTTCATTGACTGCGGTAAAGA TTTCTGGGGCGATGACTATAAAAACACGTGAAATGCATAAGTGAAGATCAGAAGTATGG TGGCAAAGGCTATGAAGGTAACCCACAAAGGCGACATCAAACAGCAGGCGTGGATTCA GAAAATTAGTGAATTAATAAAGAGACCCAATGTCAGCCCCAAAGTGAAGAACTTTTAGA GCAAATTAGTGCTTTTGACAACGTTCCAGGAAAAAGGCAAAATTTATAATTGGATGAA GAACAGTTTAAAAGTTCATAATGAATCCATTCTGGACCAGGTGTGAATATCTTTTCTGA AGCTTCCAACAGCGAACCAAGTCAATAATGAACAGGATCAACGGCCACTTCACCCATCGGC AAATCCACATGCAGAAAATCTCCACCAAGTTTCCAGCCTCAAAGTGAAGAGCGCCCTGG TACAGCNAGGGGATGGTGAAGATAATTAACCATATATGATGGGAGTACCGCCNAAGAAA GGAAAAGAGAAAAGAAAGAACCTAAGTTTGTAAACCCCGAGCAAACTCTAGGGATCCGA GCT
Restriction Sites:	NotI-NotI
ACCN:	NM_017816
Insert Size:	4700 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).
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:	<ol style="list-style-type: none"> 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:	<u>NM_017816.1</u> , <u>NP_060286.1</u>
RefSeq Size:	1598 bp
RefSeq ORF:	1140 bp
Locus ID:	55646
UniProt ID:	<u>Q9NX58</u>
Cytogenetics:	4p16.3

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 (1) represents the longer transcript. Both variants 1 and 2 encode the same protein.