

Product datasheet for MR222894

Lyar (NM_025281) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Lyar (NM_025281) Mouse Tagged ORF Clone

Tag: Myc-DDK

Symbol: Lyar

Synonyms: MLZ-264

Mammalian Cell Selection:

Neomycin

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)ORF Nucleotide>MR222894 ORF sequence

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGTATTTTTTACATGCAATGCATGTGGTGAATCCGTGAAGAAAATACAAGTGGAAAAAGCATGTGTCTA ACTGCAGAAACTGTGAATGTCTTTCCTGCATTGACTGTGGGAAAGATTTCTGGGGTGATGACTACAAAAG CCATGTGAAGTGCATCAGTGAAGGTCAGAAGTACGGAGGCAAAGGCTATGAAGCCAAGACACACAAAGGT GATGCAAAACAGCAGGCATGGATTCAGAAAATTAATGAGTTAATAAAGAAACCCAACGTCAGCCCCAAGG TGCGAGAACTTTTGCAGCAAATCAGTGCTTTTGATAATGTTCCCAGAAAAAAGGCGAAGTTTCAGAACTG GATGAAAAACAGCCTGAAAGTGCACAGCGACTCCGTTCTAGAGCAGGTGTGGGATATCTTCTCCGAAGCA TCCAGCAGTGAGCAAGATCAGCAGCAGCCACCCAGCCACACGGCCAAGCCACATGCAGAGATGCCGATCA CTAAAGTTCCATCTGCAAAAACAAATGGCACCACAGAAGAGCAAACCGAGGCGAAGAAGAATAAAAGAGA AGACAGAAATGGGGGCCCTGGGGAGGATGCTGCCGAGGGGCAGACCAAGACAGCAGCAGGAAACGGAAG AGGGAGAGGCCAAGGACCACGAGGCTCCATCGAAAGGTAAATTCAACTGGAAGGGGACCATTAAGGCTGT TTTGAAACAGGCTCCAGACAACGAGATATCAGTCAAGAAGTTAAAGAAAAAGGTTATAGCTCAGTACCAT GCGGTGATGAACGACCATCACACATCGGAGGAGGAGCTCCTGGCCATCTTCAACAGGAAGATCAGCAGGA ACCCCACCTTTAAGGTGCTGAAGGACAGAGTAAAGCTTCTGAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR222894 protein sequence

Red=Cloning site Green=Tags(s)

MVFFTCNACGESVKKIQVEKHVSNCRNCECLSCIDCGKDFWGDDYKSHVKCISEGQKYGGKGYEAKTHKG DAKQQAWIQKINELIKKPNVSPKVRELLQQISAFDNVPRKKAKFQNWMKNSLKVHSDSVLEQVWDIFSEA SSSEQDQQQPPSHTAKPHAEMPITKVPSAKTNGTTEEQTEAKKNKRERKEERQKNRKKEKKELKLENHQE NLRGQKPKKRKKNQEAGHEAAGEEAAEASGPPEKKKAQGGQASEEGADRNGGPGEDAAEGQTKTAAGKRK RPKHSGAESGYKKKKMKLPEQPEEGEAKDHEAPSKGKFNWKGTIKAVLKQAPDNEISVKKLKKKVIAQYH AVMNDHHTSEEELLAIFNRKISRNPTFKVLKDRVKLLK

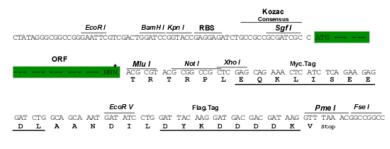
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_025281

ORF Size: 1167 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of

reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing

variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

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: <u>NM 025281.3</u>, <u>NP 079557.2</u>

 RefSeq Size:
 1568 bp

 RefSeq ORF:
 1167 bp

 Locus ID:
 17089

 UniProt ID:
 Q08288

 Cytogenetics:
 5 20.29 cM

 MW:
 43.7 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 (By similarity). Also acts at the level of transcription regulation. Along with PRMT5, binds embryonic globin

promoter (By similarity). Represses the expression of embryonic globin Hbb-y gene

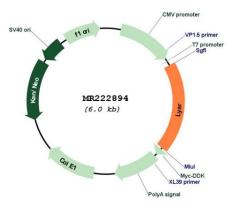
(PubMed:25092918). In neuroblastoma cells, may also repress the expression of oxidative stress genes, including CHAC1, HMOX1, SLC7A11, ULBP1 and that encoding the small nucleolar RNA SNORD41 (By similarity). Preferentially binds to a DNA motif containing 5'-GGTTAT-3' (By similarity). Stimulates phagocytosis of photoreceptor outer segments by retinal pigment epithelial cells (PubMed:25735755). Prevents 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 (PubMed:19489080).[UniProtKB/Swiss-Prot

Function]



Product images:



Circular map for MR222894