Resource Summary Report

Generated by RRID on Aug 25, 2026

pCR4-24XPP7SL

RRID:Addgene_31864
Type: Plasmid

Proper Citation

RRID:Addgene_31864

Plasmid Information

URL: http://www.addgene.org/31864

Proper Citation: RRID:Addgene_31864

Insert Name: 24xPP7 Stem Loop Cassette

Bacterial Resistance: Ampicillin

Defining Citation: PMID:21512033

Vector Backbone Description: Vector Backbone:pCR4blunt; Vector Types:; Bacterial Resistance:Ampicillin

Comments: The 24xPP7 stem loop cassettes in this plasmid were generated from two non-identical stem-loops to reduce unnecessary redundancy and the chance of recombination in bacteria. The sequence for a single cassette (with the two non-identical stem-loops in uppercase) is: taaggtacctaattgcctagaaaGGAGCAGACGATATGGCGTCGCTCCctgcaggtcgactctagaaa-CCAGCAGAGCATATGGGCTCGCTGGctgcagtattcccgggttcatt

Plasmid Name: pCR4-24XPP7SL

Record Creation Time: 20220422T222138+0000

Record Last Update: 20260815T081340+0000

Ratings and Alerts

No rating or validation information has been found for pCR4-24XPP7SL.

No alerts have been found for pCR4-24XPP7SL.

Data and Source Information

Source: Addgene

Usage and Citation Metrics

We found 15 mentions in open access literature.

Listed below are recent publications. The full list is available at RRID .

Chen EC, et al. (2025) Imaging Retroviral RNA Genome Heterodimers Using Bimolecular Fluorescence Complementation (BiFC). Viruses, 17(8).

Martin RM, et al. (2023) Live-cell imaging unveils distinct R-loop populations with heterogeneous dynamics. Nucleic acids research, 51(20), 11010.

Granik N, et al. (2022) Formation of synthetic RNA protein granules using engineered phage-coat-protein -RNA complexes. Nature communications, 13(1), 6811.

Shao B, et al. (2021) Single-cell measurement of plasmid copy number and promoter activity. Nature communications, 12(1), 1475.

Suzuki S, et al. (2021) DMP-1 promoter-associated antisense strand non-coding RNA, panRNA-DMP-1, physically associates with EGFR to repress EGF-induced squamous cell carcinoma migration. Molecular and cellular biochemistry, 476(4), 1673.

Chen EC, et al. (2021) Visualizing Rous Sarcoma Virus Genomic RNA Dimerization in the Nucleus, Cytoplasm, and at the Plasma Membrane. Viruses, 13(5).

Wang S, et al. (2021) Nuclear export and translation of circular repeat-containing intronic RNA in C9ORF72-ALS/FTD. Nature communications, 12(1), 4908.

Katz N, et al. (2021) Overcoming the design, build, test bottleneck for synthesis of nonrepetitive protein-RNA cassettes. Nature communications, 12(1), 1576.

Vítor AC, et al. (2019) Single-molecule imaging of transcription at damaged chromatin. Science advances, 5(1), eaau1249.

Li J, et al. (2019) Single-Molecule Nanoscopy Elucidates RNA Polymerase II Transcription at Single Genes in Live Cells. Cell, 178(2), 491.

Pizzinga M, et al. (2019) Translation factor mRNA granules direct protein synthetic capacity to regions of polarized growth. The Journal of cell biology, 218(5), 1564.

Va?ková Hausnerová V, et al. (2017) Chromatin decondensation is accompanied by a transient increase in transcriptional output. Biology of the cell, 109(1), 65.

Lin Y, et al. (2015) Combinatorial gene regulation by modulation of relative pulse timing. Nature, 527(7576), 54.

Rino J, et al. (2015) Single-Molecule Imaging of RNA Splicing in Live Cells. Methods in enzymology, 558, 571.

Ochiai H, et al. (2014) Stochastic promoter activation affects Nanog expression variability in mouse embryonic stem cells. Scientific reports, 4, 7125.