

Resource Summary Report

Generated by [NIF](#) on Jul 30, 2026

pUC19-Q73QW6

RRID:Addgene_103130

Type: Plasmid

Proper Citation

RRID:Addgene_103130

Plasmid Information

URL: <http://www.addgene.org/103130>

Proper Citation: RRID:Addgene_103130

Insert Name: Q73QW6(Cas9 coding gene from Streptococcus mutans serotype c (strain ATCC 700610 / UA159))

Organism: Other

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:29529247](#)

Vector Backbone Description: Backbone Marker:NEB(New England Biolabs); Vector Backbone:pUC19; Vector Types:CRISPR, Cloning vector; Bacterial Resistance:Ampicillin

Plasmid Name: pUC19-Q73QW6

Relevant Mutation: human codon-optimized

Record Creation Time: 20220422T221459+0000

Record Last Update: 20260725T073354+0000

Ratings and Alerts

No rating or validation information has been found for pUC19-Q73QW6.

No alerts have been found for pUC19-Q73QW6.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 65 mentions in open access literature.

Listed below are recent publications. The full list is available at [NIF](#) .

Chen Y, et al. (2026) Structure insight into FtsZ function maintaining under acid stress of *Streptococcus mutans*. *International journal of oral science*, 18(1), 3.

Liu Q, et al. (2025) Antimicrobial Peptide P-113-DPS Suppresses the Cariogenic Virulence of *Streptococcus mutans*. *ACS applied bio materials*, 8(6), 4973.

Wall LA, et al. (2025) Acquired CRISPR spacers and rhamnose-glucose polysaccharide defects confer resistance to *Streptococcus mutans* phage ϕ APCM01. *Microbiology* (Reading, England), 171(6).

Zeng C, et al. (2025) Inhibitory effects of berberine against *Streptococcus mutans*: an in vitro insight on its anticaries potential. *Microbiology spectrum*, 13(9), e0070025.

Zhang J, et al. (2025) L-serine-O-sulfate alters cellular ultrastructure and mitigates the capacity of biofilm formation in *Streptococcus mutans* UA159 via interfering with glutamate racemase. *Current research in microbial sciences*, 9, 100427.

Wall LA, et al. (2025) Acquired CRISPR spacers and rhamnose-glucose polysaccharide defects confer resistance to *Streptococcus mutans* phage ϕ APCM01. *bioRxiv : the preprint server for biology*.

Sangavi R, et al. (2024) Anticariogenic activity of marine brown algae *Padina boergesenii* and its active components towards *Streptococcus mutans*. *Frontiers in cellular and infection microbiology*, 14, 1458825.

Li J, et al. (2024) Small RNA SmsR1 modulates acidogenicity and cariogenic virulence by affecting protein acetylation in *Streptococcus mutans*. *PLoS pathogens*, 20(4), e1012147.

Bao L, et al. (2024) Experimental evolution of gene essentiality in bacteria. *bioRxiv : the preprint server for biology*.

Chen J, et al. (2024) Microbiome-friendly PS/PVP electrospun fibrous membrane with antibiofilm properties for dental engineering. *Regenerative biomaterials*, 11, rbae011.

Zhou J, et al. (2024) smu_1558c-mediated regulation of growth and biofilm formation in *Streptococcus mutans*. *Frontiers in microbiology*, 15, 1507928.

Goc A, et al. (2024) Antibacterial and Antibiofilm Effects of L-Carnitine-Fumarate on Oral Streptococcal Strains *Streptococcus mutans* and *Streptococcus sobrinus*. *Microorganisms*, 12(8).

Dufour D, et al. (2023) Transcriptome Analysis of *Streptococcus mutans* Quorum Sensing-Mediated Persisters Reveals an Enrichment in Genes Related to Stress Defense Mechanisms. *Genes*, 14(10).

- Wang J, et al. (2023) Rapid Detection of Streptococcus mutans Using an Integrated Microfluidic System with Loop-Mediated Isothermal Amplification. *Journal of microbiology and biotechnology*, 33(8), 1101.
- Liu C, et al. (2023) Small Molecule Attenuates Bacterial Virulence by Targeting Conserved Response Regulator. *mBio*, 14(3), e0013723.
- Li L, et al. (2023) Adaptation of Prokaryotic Toxins for Negative Selection and Cloning-Independent Markerless Mutagenesis in Streptococcus Species. *mSphere*, 8(3), e0068222.
- Yarmola E, et al. (2022) Amyloid Aggregates Are Localized to the Nonadherent Detached Fraction of Aging Streptococcus mutans Biofilms. *Microbiology spectrum*, 10(4), e0166122.
- Tang YL, et al. (2022) Oral streptococci subvert the host innate immune response through hydrogen peroxide. *Scientific reports*, 12(1), 656.
- Zhang Z, et al. (2022) Inhibition of Biofilm Formation and Virulence Factors of Cariogenic Oral Pathogen Streptococcus mutans by Shikimic Acid. *Microbiology spectrum*, 10(4), e0119922.
- Alves LA, et al. (2022) Diversity in Phenotypes Associated With Host Persistence and Systemic Virulence in Streptococcus sanguinis Strains. *Frontiers in microbiology*, 13, 875581.