Resource Summary Report

Generated by PRECISE-TBI on Aug 9, 2026

pSLQ1661-sgMUC4-E3(F+E)

RRID:Addgene_51025
Type: Plasmid

Proper Citation

RRID:Addgene_51025

Plasmid Information

URL: http://www.addgene.org/51025

Proper Citation: RRID:Addgene_51025

Insert Name: optimized sgRNA

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: PMID:24360272

Vector Backbone Description: Vector Backbone:pSico; Vector Types:Mammalian Expression, Lentiviral, CRISPR; Bacterial Resistance:Ampicillin

Comments: gRNA target sequence GTGGCGTGACCTGTGGATGCTG

Plasmid Name: pSLQ1661-sgMUC4-E3(F+E)

Record Creation Time: 20220422T222301+0000

Record Last Update: 20260808T081800+0000

Ratings and Alerts

No rating or validation information has been found for pSLQ1661-sgMUC4-E3(F+E).

No alerts have been found for pSLQ1661-sgMUC4-E3(F+E).

Data and Source Information

Source: Addgene

Usage and Citation Metrics

We found 8 mentions in open access literature.

Listed below are recent publications. The full list is available at PRECISE-TBI .

Mao S, et al. (2025) Spuriously transcribed RNAs from CRISPR-sgRNA expression plasmids scaffold biomolecular condensate formation and hamper accurate genomic imaging. Nucleic acids research, 53(6).

Bonacquisti EE, et al. (2024) Fluorogenic RNA-based biomaterials for imaging and tracking the cargo of extracellular vesicles. Journal of controlled release : official journal of the Controlled Release Society, 374, 349.

Castells-Garcia A, et al. (2022) Super resolution microscopy reveals how elongating RNA polymerase II and nascent RNA interact with nucleosome clutches. Nucleic acids research, 50(1), 175.

Athmane N, et al. (2021) MUC4 is not expressed in cell lines used for live cell imaging. Wellcome open research, 6, 265.

Mao S, et al. (2019) CRISPR/dual-FRET molecular beacon for sensitive live-cell imaging of non-repetitive genomic loci. Nucleic acids research, 47(20), e131.

Neguembor MV, et al. (2018) (Po)STAC (Polycistronic SunTAg modified CRISPR) enables live-cell and fixed-cell super-resolution imaging of multiple genes. Nucleic acids research, 46(5), e30.

Qin P, et al. (2017) Live cell imaging of low- and non-repetitive chromosome loci using CRISPR-Cas9. Nature communications, 8, 14725.

Fu Y, et al. (2016) CRISPR-dCas9 and sgRNA scaffolds enable dual-colour live imaging of satellite sequences and repeat-enriched individual loci. Nature communications, 7, 11707.