

Resource Summary Report

Generated by [RRID](#) on Sep 2, 2026

Human Brunello kinome pooled library, guides 1-4 in lentiGuide-Puro backbone

RRID:Addgene_75312

Type: Plasmid

Proper Citation

RRID:Addgene_75312

Plasmid Information

URL: <http://www.addgene.org/75312>

Proper Citation: RRID:Addgene_75312

Insert Name: 3,052 unique sgRNAs targeting 763 human kinase genes along with 100 non-targeting controls

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:26780180](#)

Vector Backbone Description: Vector Backbone:lentiGuide-Puro; Vector Types:Mammalian Expression, Lentiviral, CRISPR; Bacterial Resistance:Ampicillin

Plasmid Name: Human Brunello kinome pooled library, guides 1-4 in lentiGuide-Puro backbone

Record Creation Time: 20220422T222457+0000

Record Last Update: 20260902T050136+0000

Ratings and Alerts

No rating or validation information has been found for Human Brunello kinome pooled library, guides 1-4 in lentiGuide-Puro backbone.

No alerts have been found for Human Brunello kinome pooled library, guides 1-4 in lentiGuide-Puro backbone.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 9 mentions in open access literature.

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

Kelley VM, et al. (2026) Loss of JAK1 Function Causes G2-M Cell-Cycle Defects Vulnerable to KIF18A Inhibition. *Cancer research*, 86(9), 2301.

Xue F, et al. (2025) CRISPR/Cas9 Screening Highlights PFKFB3 Gene as a Major Contributor to 5-Fluorouracil Resistance in Esophageal Cancer. *Cancers*, 17(10).

Casagrande Raffi G, et al. (2025) Inducible CRISPR-Cas9 screening platform to interrogate non-proliferative cellular states. *Nature protocols*.

Vincent-Chong VK, et al. (2025) Target Discovery in Head-and-Neck Squamous Cell Carcinoma: Genome-Wide CRISPR Screens Illuminate Therapeutic Resistance and Actionable Dependencies. *Biomedicines*, 13(12).

Chen M, et al. (2024) Targeting of vulnerabilities of drug-tolerant persisters identified through functional genetics delays tumor relapse. *Cell reports. Medicine*, 5(3), 101471.

Goto Y, et al. (2024) A Kinome-Wide Synthetic Lethal CRISPR/Cas9 Screen Reveals That mTOR Inhibition Prevents Adaptive Resistance to CDK4/CDK6 Blockade in HNSCC. *Cancer research communications*, 4(7), 1850.

Yi P, et al. (2021) Applying CRISPR Screen in Diabetes Research. *Diabetes*, 70(9), 1962.

Paradis JS, et al. (2021) Synthetic Lethal Screens Reveal Cotargeting FAK and MEK as a Multimodal Precision Therapy for GNAQ-Driven Uveal Melanoma. *Clinical cancer research : an official journal of the American Association for Cancer Research*, 27(11), 3190.

Yau EH, et al. (2018) Next-Generation Sequencing of Genome-Wide CRISPR Screens. *Methods in molecular biology (Clifton, N.J.)*, 1712, 203.