

Resource Summary Report

Generated by [NIF](#) on Jul 31, 2026

pFGL821

RRID:Addgene_58223

Type: Plasmid

Proper Citation

RRID:Addgene_58223

Plasmid Information

URL: <http://www.addgene.org/58223>

Proper Citation: RRID:Addgene_58223

Insert Name: hygromycin B phosphotransferase

Organism: Escherichia coli

Bacterial Resistance: Kanamycin

Vector Backbone Description: Vector Backbone:pFGL815; Vector Types:Bacterial Expression; Bacterial Resistance:Kanamycin

Comments: Reference: Sweigard J, Chumley F, Carroll A, Farrall L, Valent B (1997) A series of vectors for fungal transformation. Fungal Genet Newsl 44: 52-53

Plasmid Name: pFGL821

Record Creation Time: 20220422T222337+0000

Record Last Update: 20260725T074910+0000

Ratings and Alerts

No rating or validation information has been found for pFGL821.

No alerts have been found for pFGL821.

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 [NIF](#) .

Xu M, et al. (2025) A fungal chromatin remodeler drives transcription by establishing an open chromatin architecture and activated histone environment. *Cell reports*, 44(9), 116169.

Cao X, et al. (2025) UvCYP503 is required for stress response and pathogenicity in *Ustilaginoidea virens*. *Virulence*, 16(1), 2472877.

Xu M, et al. (2024) A repressive H3K36me2 reader mediates Polycomb silencing. *Nature communications*, 15(1), 7287.

Wen H, et al. (2023) Sucrose non-fermenting protein kinase gene *UvSnf1* is required for virulence in *Ustilaginoidea virens*. *Virulence*, 14(1), 2235460.

Foster AJ, et al. (2023) Unanticipated Large-Scale Deletion in *Fusarium graminearum* Genome Using CRISPR/Cas9 and Its Impact on Growth and Virulence. *Journal of fungi* (Basel, Switzerland), 9(6).

Huang J, et al. (2022) CRISPR-Cas12a induced DNA double-strand breaks are repaired by multiple pathways with different mutation profiles in *Magnaporthe oryzae*. *Nature communications*, 13(1), 7168.

Meng S, et al. (2022) UvKmt2-Mediated H3K4 Trimethylation Is Required for Pathogenicity and Stress Response in *Ustilaginoidea virens*. *Journal of fungi* (Basel, Switzerland), 8(6).

Huang J, et al. (2022) CRISPR-Cas12a ribonucleoprotein-mediated gene editing in the plant pathogenic fungus *Magnaporthe oryzae*. *STAR protocols*, 3(1), 101072.

Zhang W, et al. (2021) Histone modification dynamics at H3K27 are associated with altered transcription of in planta induced genes in *Magnaporthe oryzae*. *PLoS genetics*, 17(2), e1009376.

Shi H, et al. (2021) MoWhi2 regulates appressorium formation and pathogenicity via the MoTor signalling pathway in *Magnaporthe oryzae*. *Molecular plant pathology*, 22(8), 969.

Meng S, et al. (2021) UvKmt6-mediated H3K27 trimethylation is required for development, pathogenicity, and stress response in *Ustilaginoidea virens*. *Virulence*, 12(1), 2972.

Shen Q, et al. (2020) Ferroptosis contributes to developmental cell death in rice blast. *The New phytologist*, 227(6), 1831.

Kou Y, et al. (2017) Structure-function analyses of the Pth11 receptor reveal an important role for CFEM motif and redox regulation in rice blast. *The New phytologist*, 214(1), 330.

Zhang S, et al. (2017) Phototrophy and starvation-based induction of autophagy upon removal of Gcn5-catalyzed acetylation of Atg7 in *Magnaporthe oryzae*. *Autophagy*, 13(8), 1318.

Furukawa T, et al. (2017) Intracellular superoxide level controlled by manganese superoxide dismutases affects trichothecene production in *Fusarium graminearum*. FEMS microbiology letters, 364(21).