

Resource Summary Report

Generated by [dkNET](#) on Sep 4, 2026

[pBPGUw](#)

RRID:Addgene_17575

Type: Plasmid

Proper Citation

RRID:Addgene_17575

Plasmid Information

URL: <http://www.addgene.org/17575>

Proper Citation: RRID:Addgene_17575

Insert Name: GAL4

Organism: *Saccharomyces cerevisiae*

Bacterial Resistance: Chloramphenicol and Ampicillin

Defining Citation: [PMID:18621688](#)

Vector Backbone Description: Backbone Size:9052; Vector Backbone:pBDP; Vector Types:Insect Expression; Bacterial Resistance:Chloramphenicol and Ampicillin

Comments: pBPGUw is a modular Gateway compatible GAL4 vector amenable to high throughput in vitro cloning using Invitrogen LR clonase and specific in vivo genomic targeting using PhiC31 integrase. pBPGUw contains a Drosophila synthetic core promoter (DSCP) that contains TATA, Inr, MTE, and DPE motifs. In addition the GAL4 CDS and yeast transcriptional terminator can easily be substituted for another driver by a directional 5' KpnI to 3' HindIII digest.

Plasmid Name: pBPGUw

Record Creation Time: 20220422T222015+0000

Record Last Update: 20260902T042945+0000

Ratings and Alerts

No rating or validation information has been found for pBPGUw.

No alerts have been found for pBPGUw.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 41 mentions in open access literature.

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

Markovitsch JW, et al. (2026) Sequential formation of Drosophila circuit asymmetry via prolonged structural plasticity. Science advances, 12(13), eaea6020.

Torres-Oliva M, et al. (2025) Heterochrony in orthodenticle expression is associated with ommatidial size variation between Drosophila species. BMC biology, 23(1), 34.

Cardamone F, et al. (2025) Chromatin landscape at cis-regulatory elements orchestrates cell fate decisions in early embryogenesis. Nature communications, 16(1), 3007.

Coyne R, et al. (2025) Regulatory logic of neuronal identity specification in Drosophila. bioRxiv : the preprint server for biology.

Carrier Y, et al. (2024) Biased cell adhesion organizes the Drosophila visual motion integration circuit. Developmental cell.

Sun J, et al. (2024) Two sequential gene expression programs bridged by cell division support long-distance collective cell migration. Development (Cambridge, England), 151(10).

Wang Z, et al. (2023) Evolution of a fatty acyl-CoA elongase underlies desert adaptation in Drosophila. Science advances, 9(35), eadg0328.

Li M, et al. (2023) Ancestral neural circuits potentiate the origin of a female sexual behavior. bioRxiv : the preprint server for biology.

Buffry AD, et al. (2023) Characterisation of the role and regulation of Ultrabithorax in sculpting fine-scale leg morphology. Frontiers in cell and developmental biology, 11, 1119221.

Longden KD, et al. (2023) Different spectral sensitivities of ON- and OFF-motion pathways enhance the detection of approaching color objects in Drosophila. Nature communications, 14(1), 7693.

Coleman RT, et al. (2023) A modular circuit architecture coordinates the diversification of courtship strategies in Drosophila. bioRxiv : the preprint server for biology.

Wang Z, et al. (2022) Desiccation resistance differences in Drosophila species can be largely explained by variations in cuticular hydrocarbons. eLife, 11.

Duckhorn JC, et al. (2022) Regulation of Drosophila courtship behavior by the Tlx/tailless-like nuclear receptor, dissatisfaction. Current biology : CB, 32(8), 1703.

Begeman IJ, et al. (2022) Regeneration and developmental enhancers are differentially compatible with minimal promoters. *Developmental biology*, 492, 47.

Pinto PB, et al. (2022) Specificity of the Hox member Deformed is determined by transcription factor levels and binding site affinities. *Nature communications*, 13(1), 5037.

Janssens J, et al. (2022) Decoding gene regulation in the fly brain. *Nature*, 601(7894), 630.

Lucas T, et al. (2021) Discrete cis-acting element regulates developmentally timed gene-lamina relocation and neural progenitor competence in vivo. *Developmental cell*, 56(18), 2649.

Hertenstein H, et al. (2021) Starvation-induced regulation of carbohydrate transport at the blood-brain barrier is TGF- β -signaling dependent. *eLife*, 10.

Coates JA, et al. (2021) Identification of functionally distinct macrophage subpopulations in *Drosophila*. *eLife*, 10.

Chiu H, et al. (2021) A circuit logic for sexually shared and dimorphic aggressive behaviors in *Drosophila*. *Cell*, 184(2), 507.