

Resource Summary Report

Generated by [RRID](#) on Aug 20, 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: 20260815T081052+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 [RRID](#) .

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

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.

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

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.

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

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

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.

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

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

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