# Resource Summary Report

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## pQUAST

RRID:Addgene_24349
Type: Plasmid

### Proper Citation

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### Plasmid Information

**URL:** http://www.addgene.org/24349

**Proper Citation:** RRID:Addgene_24349

**Insert Name:** 5xQUAS-Pmin promoter

**Organism:** Drosophila melanogaster

**Bacterial Resistance:** Ampicillin

**Defining Citation:** PMID:20434990

**Vector Backbone Description:** Backbone Marker:Brand and Perrimon, 1993; Backbone Size:8950; Vector Backbone:pUAST; Vector Types:Insect Expression; Bacterial Resistance:Ampicillin

**Comments:** This vector was designed to mimic the multi-cloning site of the pUAST vector (Brand and Perrimon, 1993) thereby allowing easy exchange of inserts between pUAST and pQUAST. pUAST was digest by SphI and EcoRI and blunted with Klenow to remove the 5xUAS and hsp70 minimal promoter (minP). pQUAS-GG was digested with BamHI and EcoRI to excise the 5xQUAS and Pmin and then blunted. The 5xQUAS-Pmin promoter was then ligated into the modified pUAST vector to generate pQUAST. Any gene X can be subcloned from pUAST-geneX into pQUAST using the same restriction sites that were originally utilized for pUAST-geneX construction. If the pUAST- geneX plasmid is not available, genomic DNA from flies containing the UAS-geneX transgene can be used. In this case, pQUAST-geneX can be constructed as follows: 1) PCR amplify the UAS insert from UAS-geneX genomic DNA by using the primer pairs genUASFOR (GCTTCGTCTACGGAGCGACAATTCAATTCAAAC) and genUASREVsv40 (GCAGTAGCCTCATCATCACTAGATGGCATTTCTTC). These primers will amplify the insert for any UAS construct, including the restriction sites used for cloning of that insert into the UAS vector. 2) If the restriction sites used for cloning of the UAS insert are unknown,

sequence the PCR fragment using UASFOR-SEQ (TCAAACAAGCAAAGTGAACACG) and SV40REV-SEQ (CCATTCATCAGTTCCATAGGTTGG) primers. 3) Digest the PCR product with appropriate enzymes for cloning into pQUAST.

**Plasmid Name:** pQUAST

**Record Creation Time:** 20220422T222108+0000

**Record Last Update:** 20220422T223638+0000

## Ratings and Alerts

No rating or validation information has been found for pQUAST.

No alerts have been found for pQUAST.

## Data and Source Information

**Source:** Addgene

## Usage and Citation Metrics

We found 4 mentions in open access literature.

**Listed below are recent publications.** The full list is available at FDI Lab - SciCrunch.org.

Praschberger R, et al. (2023) Neuronal identity defines ?-synuclein and tau toxicity. Neuron, 111(10), 1577.

Wong KKL, et al. (2023) Origin of wiring specificity in an olfactory map revealed by neuron type-specific, time-lapse imaging of dendrite targeting. eLife, 12.

Enomoto M, et al. (2021) Interaction between Ras and Src clones causes interdependent tumor malignancy via Notch signaling in Drosophila. Developmental cell, 56(15), 2223.

Mukherjee C, et al. (2020) Oligodendrocytes Provide Antioxidant Defense Function for Neurons by Secreting Ferritin Heavy Chain. Cell metabolism, 32(2), 259.