

Resource Summary Report

Generated by [kravitz2](#) on Aug 10, 2026

p663-UBC-miniTurbo-V5-CDKL5_IDG-K

RRID:Addgene_170578

Type: Plasmid

Proper Citation

RRID:Addgene_170578

Plasmid Information

URL: <http://www.addgene.org/170578>

Proper Citation: RRID:Addgene_170578

Insert Name: miniTurbo-V5-CDKL5

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Vector Backbone Description: Backbone Marker:PEL; Backbone Size:9019; Vector Backbone:pDest663; Vector Types:Mammalian Expression, Lentiviral, Gateway Destination; Bacterial Resistance:Ampicillin

Comments: Depositor confirms E854G in CDKL5 does not affect plasmid function. These plasmids were generated as part of the Illuminating the Druggable Genome (IDG) program sponsored by the NIH Common Fund. The goal of this program is to identify, gather, and distribute information and resources for proteins that currently are not well-studied yet belong to commonly drug-targeted protein families: protein kinases, non-olfactory G-protein coupled receptors (GPCRs), and ion channels. The IDG program is designed to develop fundamental research tools for understudied proteins, elucidate their function, and disseminate the IDG-related resources and data to the greater scientific community. These lentiviral gateway destination plasmids were generated, as part of the Kinase-Data and Resource Generating Center (DRGC), using the single fragment or multisite gateway cloning technology. They were used for generating proteomics-based protein-interaction and protein-proximity networks that can be accessed through the kinase-DRGC website <https://darkkinome.org/>. Each plasmid has either an N- or C-terminal fusion protein (Flag/V5/V5-miniTurbo/V5-TurboID/miniTurbo-V5/TurboID-V5) tagged understudied kinase driven under either a CMV or Ubiquitin (UBC) promoter. All inserts in the pENTR plasmids used to generate the deposited destination plasmids were end-sequenced and insert size validated prior to multi-site gateway cloning. The combined insert size of the single fragment or three fragment destination plasmids were confirmed by restriction digestion (BsrGI, and EcoRV for pDest667; BsrGI, EcoRV, and BstZ17I for pDest663; and BsrGI for

pHAGE) and all plasmids were partially sequenced to ensure in-frame ORFs and fusion tags.

Plasmid Name: p663-UBC-miniTurbo-V5-CDKL5_IDG-K

Relevant Mutation: E854G- please see depositor comments

Record Creation Time: 20220422T221953+0000

Record Last Update: 20260808T081219+0000

Ratings and Alerts

No rating or validation information has been found for p663-UBC-miniTurbo-V5-CDKL5_IDG-K.

No alerts have been found for p663-UBC-miniTurbo-V5-CDKL5_IDG-K.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.