

Resource Summary Report

Generated by [PRECISE-TBI](#) on Aug 9, 2026

pPB-VPR-dSpCas9[StaPL(TI)]

RRID:Addgene_111508

Type: Plasmid

Proper Citation

RRID:Addgene_111508

Plasmid Information

URL: <http://www.addgene.org/111508>

Proper Citation: RRID:Addgene_111508

Insert Name: VPR-dSpCas9[StaPL(TI)]

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:29967496](#)

Vector Backbone Description: Backbone Marker: System Biosciences; Vector Backbone: pPB; Vector Types: Mammalian Expression; Bacterial Resistance: Ampicillin

Comments: [Ref. 1] SUBACH O.M., GUNDOROV I.S., YOSHIMURA M., SUBACH F.V., ZHANG J., GRUENWALD D., SOUSLOVA E.A., CHUDAKOV D.M., & VERKHUSHA V.V. 2008. Conversion of Red Fluorescent Protein into a Bright Blue Probe. *Chem Biol* 15 (10):1116-24. [Ref. 2] CHAVEZ A., SCHEIMAN J., VORA S., PRUITT B.W., TUTTLE M., P R IYER E., LIN S., KIANI S., GUZMAN C.D., WIEGAND D.J., TER-OVANESYAN D., BRAFF J.L., DAVIDSOHN N., HOUSDEN B.E., PERRIMON N., WEISS R., AACH J., COLLINS J.J. & CHURCH G.M. 2015. Highly efficient Cas9-mediated transcriptional programming. *Nat Methods* 12: 326-328. [Ref. 3] GAO Y., XIONG X., WONG S., CHARLES E.J., LIM W.A. & QI L.S. 2016. Complex transcriptional modulation with orthogonal and inducible dCas9 regulators. *Nat Methods* 13: 1043-1049.

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Relevant Mutation: The HCV NS3 protease carries F43L, Q80K, and S122R, and D168Y mutations. The VPR domain's internal NLS sequence was mutated to a GGSGGSGGS linker. SpCas9 contains D10A and H840A mutations.

Record Creation Time: 20220422T221543+0000

Record Last Update: 20260808T080439+0000

Ratings and Alerts

No rating or validation information has been found for pPB-VPR-dSpCas9[StaPL(TI)].

No alerts have been found for pPB-VPR-dSpCas9[StaPL(TI)].

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.