

Resource Summary Report

Generated by [NIF](#) on Sep 20, 2026

pACAGW-H2B-PAGFP-AAV

RRID:Addgene_33000

Type: Plasmid

Proper Citation

RRID:Addgene_33000

Plasmid Information

URL: <http://www.addgene.org/33000>

Proper Citation: RRID:Addgene_33000

Insert Name: H2B-PAGFP

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:22144948](#)

Vector Backbone Description: Backbone Size:4771; Vector Backbone:N/A; Vector Types:Mammalian Expression, AAV, adeno associated virus; Bacterial Resistance:Ampicillin

Comments: Plasmid containing the H2B-PAGFP fusion gene was a gift from André Nussenzweig (Kruhlak et al., 2006). The H2B-PAGFP gene was subcloned into the pACAGW-ChR2-Venus-AAV plasmid (Addgene # 20071). Kruhlak, M. J., Celeste, A., Dellaire, G., Fernandez-Capetillo, O., Müller, W. G., McNally, J. G., Bazett-Jones, D. P., and Nussenzweig, A. (2006). Changes in chromatin structure and mobility in living cells at sites of DNA double-strand breaks. J. Cell Biol. 172, 823-34. There is a 5bp deletion in Addgene's sequence compared to depositor's reference sequence. The deletion is in the vector sequence upstream of the ORF and does not affect plasmid function. There is also a mutation D26G in H2B; this mutation is found in depositor's reference sequence as well.

Plasmid Name: pACAGW-H2B-PAGFP-AAV

Record Creation Time: 20220422T222143+0000

Record Last Update: 20260919T091712+0000

Ratings and Alerts

No rating or validation information has been found for pACAGW-H2B-PAGFP-AAV.

No alerts have been found for pACAGW-H2B-PAGFP-AAV.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 3 mentions in open access literature.

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

Barz CS, et al. (2021) Functional and Structural Properties of Highly Responsive Somatosensory Neurons in Mouse Barrel Cortex. Cerebral cortex (New York, N.Y. : 1991), 31(10), 4533.

Farrelly O, et al. (2021) Two-photon live imaging of single corneal stem cells reveals compartmentalized organization of the limbal niche. Cell stem cell, 28(7), 1233.

Francis AC, et al. (2020) HIV-1 replication complexes accumulate in nuclear speckles and integrate into speckle-associated genomic domains. Nature communications, 11(1), 3505.