

Resource Summary Report

Generated by [RRID](#) on Sep 1, 2026

[pEGFP-FRB](#)

RRID:Addgene_25919

Type: Plasmid

Proper Citation

RRID:Addgene_25919

Plasmid Information

URL: <http://www.addgene.org/25919>

Proper Citation: RRID:Addgene_25919

Insert Name: FRB

Organism: Homo sapiens

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:20581846](#)

Vector Backbone Description: Backbone Size:4700; Vector Backbone:pEGFP-C1;
Vector Types:Mammalian Expression; Bacterial Resistance:Kanamycin

Comments: FRB is a small domain derived from full length mTOR. In brief, rapamycin binds to a protein called FKBP12. Rapamycin bound to FKBP12 inhibits mTOR signaling

Plasmid Name: pEGFP-FRB

Record Creation Time: 20220422T222116+0000

Record Last Update: 20260829T080254+0000

Ratings and Alerts

No rating or validation information has been found for pEGFP-FRB.

No alerts have been found for pEGFP-FRB.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 11 mentions in open access literature.

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

Querques F, et al. (2026) Targeted recruitment of USP15 enhances CTLA4 surface levels and restricts its degradation. Life science alliance, 9(4).

Miyoshi T, et al. (2025) Single-molecule fluorescence microscopy reveals regulatory mechanisms of MYO7A-driven cargo transport in stereocilia of live inner ear hair cells. Nature communications, 16(1), 8149.

Zhou Y, et al. (2025) Designing protein-based artificial kinetochores as decoys to prevent meiotic errors in oocytes. Nature cell biology, 27(11), 2007.

Miyoshi T, et al. (2024) Live-cell single-molecule fluorescence microscopy for protruding organelles reveals regulatory mechanisms of MYO7A-driven cargo transport in stereocilia of inner ear hair cells. bioRxiv : the preprint server for biology.

Miyoshi T, et al. (2024) Live-cell single-molecule fluorescence microscopy for protruding organelles reveals regulatory mechanisms of MYO7A-driven cargo transport in stereocilia of inner ear hair cells. Research square.

Kim R, et al. (2023) Engineered Extracellular Vesicles with Compound-Induced Cargo Delivery to Solid Tumors. International journal of molecular sciences, 24(11).

Willette BKA, et al. (2023) Endosome positioning coordinates spatially selective GPCR signaling. Nature chemical biology.

Chen YH, et al. (2021) VPS34 K29/K48 branched ubiquitination governed by UBE3C and TRABID regulates autophagy, proteostasis and liver metabolism. Nature communications, 12(1), 1322.

Kim S, et al. (2020) An inducible system for in vitro and in vivo Fas activation using FKBP-FRB-rapamycin complex. Biochemical and biophysical research communications, 523(2), 473.

Hayashi Y, et al. (2018) Complex formation of sphingomyelin synthase 1 with glucosylceramide synthase increases sphingomyelin and decreases glucosylceramide levels. The Journal of biological chemistry, 293(45), 17505.

Nakazawa N, et al. (2016) Matrix mechanics controls FHL2 movement to the nucleus to activate p21 expression. Proceedings of the National Academy of Sciences of the United States of America, 113(44), E6813.