

Resource Summary Report

Generated by [RRID](#) on Aug 24, 2026

[pIRE4-Bpa](#)

RRID:Addgene_155342

Type: Plasmid

Proper Citation

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Plasmid Information

URL: <http://www.addgene.org/155342>

Proper Citation: RRID:Addgene_155342

Insert Name: humanized EBpaRS/BstYam

Organism: Synthetic

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:32929862](#)

Vector Backbone Description: Backbone Marker:Clontech, major modifications; Vector Backbone:pEGFP-N1; Vector Types:Mammalian Expression; Bacterial Resistance:Kanamycin

Comments: The plasmid has been developed for efficient incorporation of Bpa in mammalian cells, first reported in Böttke et al, EMBO reports, 2020. With respect to similar plasmids from other labs, this plasmid contains a humanized gene for EBpaRS and 4 copies of the U6-BstYam tRNA cassette downstream of the synthetase cassette.

Plasmid Name: pIRE4-Bpa

Record Creation Time: 20220422T221851+0000

Record Last Update: 20260815T080801+0000

Ratings and Alerts

No rating or validation information has been found for pIRE4-Bpa.

No alerts have been found for pIRE4-Bpa.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 2 mentions in open access literature.

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

Aydin Y, et al. (2023) Structural details of a Class B GPCR-arrestin complex revealed by genetically encoded crosslinkers in living cells. Nature communications, 14(1), 1151.

Maltan L, et al. (2023) Photocrosslinking-induced CRAC channel-like Orai1 activation independent of STIM1. Nature communications, 14(1), 1286.