

Resource Summary Report

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

BB44_pmc.DonorR5.TS

RRID:Addgene_199223

Type: Plasmid

Proper Citation

RRID:Addgene_199223

Plasmid Information

URL: <http://www.addgene.org/199223>

Proper Citation: RRID:Addgene_199223

Insert Name: Expression unit for mCherry - monomeric derivative of DsRed fluorescent protein (Shaner et al., 2004)

Organism: Synthetic

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:36928106](#)

Vector Backbone Description: Backbone Size:2700; Vector Backbone:pBR322; Vector Types:Mammalian Expression, Gene targeting donor plasmid; Bacterial Resistance:Ampicillin

Comments: This target site-containing donor plasmid can be used to insert a transgene at the human CCR5 safe harbor locus when delivered together with gRNA expression plasmid AY22_pgRNA.R5.1 (Addgene plasmid #100294) and a SpCas9 nuclease (HMEJ-based gene targeting) or a SpCas9.D10A nickase (ITPN-based gene targeting). Note: to reduce the chances for off-targeting donor DNA insertions when applying HMEJ-based genome editing it is preferable using AW01_pU.CAG.eSpCas9(1.1).rBGpA (Addgene plasmid #199255) or a similar construct, i.e., expressing a high specificity nuclease. Combining this donor with a *S. pyogenes* Cas9 nickase (e.g., Addgene plasmids #199256, #199253, #199254 or #199252) leads to seamless ITPN-mediated gene targeting.

Plasmid Name: BB44_pmc.DonorR5.TS

Record Creation Time: 20230430T080603+0000

Record Last Update: 20260919T093003+0000

Ratings and Alerts

No rating or validation information has been found for BB44_pmc.DonorR5.TS.

No alerts have been found for BB44_pmc.DonorR5.TS.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.