

Resource Summary Report

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BW-Para

RRID:Addgene_172602

Type: Plasmid

Proper Citation

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Plasmid Information

URL: <http://www.addgene.org/172602>

Proper Citation: RRID:Addgene_172602

Bacterial Resistance: None

Defining Citation: [PMID:34369028](#)

Vector Backbone Description: Vector Backbone:n/a; Vector Types:; Bacterial Resistance:None

Comments: The BW-Para E. coli strain is used to screen the functions of chimeric AraC/XylS transcription activators using beta-galactosidase assays (after growing transformed cells on MOPS media). Plasmids encoding these chimeras are found at <https://www.addgene.org/browse/article/28216962/>. The protocol for the reporter assay is detailed in the manuscript. The genotype for BW-Para is [F-, ?(araD-araB)567, ?lacZ4787(::rrnB-3), ?-, rph-1, ?(rhaD-rhaB)568, hsdR514], ?lacI785::kan, ?araC771::kan, ?rhaSR::(PBADmut:lacZ)]. The PBADmut:lacZ reporter construct integrated into the rhaSR KO locus comprises a synthetic Para-I promoter with -10/-35 sites of GATACT/TTTACA respectively and an ara-I DNA binding site proximal to the -35 site. The integrated 3.5 kb cassette coding for the reporter construct can be amplified from the genome using the primers: (forward) 5' - GGTGAAAGTTGGAACCTCTTAC - 3' and (reverse) 5'- GCGAGGAAGCGGAATATATCCCC - 3'. Cells should be freshly transformed prior to each assay.

Plasmid Name: BW-Para

Record Creation Time: 20221224T080344+0000

Record Last Update: 20260725T075600+0000

Ratings and Alerts

No rating or validation information has been found for BW-Para.

No alerts have been found for BW-Para.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.