2022-11-21 Repetition of growth assay

General
The growth assay was repeated between 2022-11-17 and 2022-11-19. Two replicates were made in serial, but independently, i.e., with two different batches of LA plates and overnight cultures (batch A and B).

Procedure
Following is a summary of the procedure. For detailed instructions of the protocol, see procedure above (experiment 1).

2022-11-17
LA-plates were prepared by supplementing LA with 100 µg/ml ampicillin and 50 µM IPTG. Batches A and B were prepared independently.

Two overnight cultures of each strain (cultures A and B) were prepared independently and incubated overnight at 30°C 200 rpm.

2022-11-18
10x serial dilutions of normalized cultures were prepared and spotted on agar plates, one batch at a time (see OD values of the overnight cultures and the dilution factors below). The plates were left for incubation at 37°C for 24h.

Table 1: OD measurements and normalization factors for overnight cultures in batch A

Sample	OD_{600}	Dilution Factor	Dilution
pTF	5.9	1.64x	610 µl o/n + 390 µl LB
pTF-Halo	4.7	1.31x	763 µl o/n + 237 µl LB
pTF-Halo mutant	3.6	N/A	N/A
pEmpty	4.6	1.28x	781 µl o/n + 219 µl LB

Table 2: OD measurements and normalization factors for overnight cultures in batch B

Sample	OD_{600}	Dilution Factor	Dilution
pTF	6.2	2.30x	435 µl o/n + 565 µl LB
pTF-Halo	4.7	1.74x	575 µl o/n + 425 µl LB
pTF-Halo mutant	2.7	N/A	N/A
pEmpty	3.8	1.41x	709 µl o/n + 291 µl LB

2022-11-19
The plates were put at 4°C and imaged on 2022-11-21.

Results
Similar results in all repetitions of the experiment. pTF and pTF-HaloTag cells are visible until the 10^{-5} dilution. Cells with the mutant TF-HaloTag are not viable at all, and those with the empty plasmid less viable than those with wt TF or TF-HaloTag.

This space has been intentionally left blank

Figure 3: results from growth assay on 2022-11-18 batch A

221121_Shadowfax_batch_A.jpg

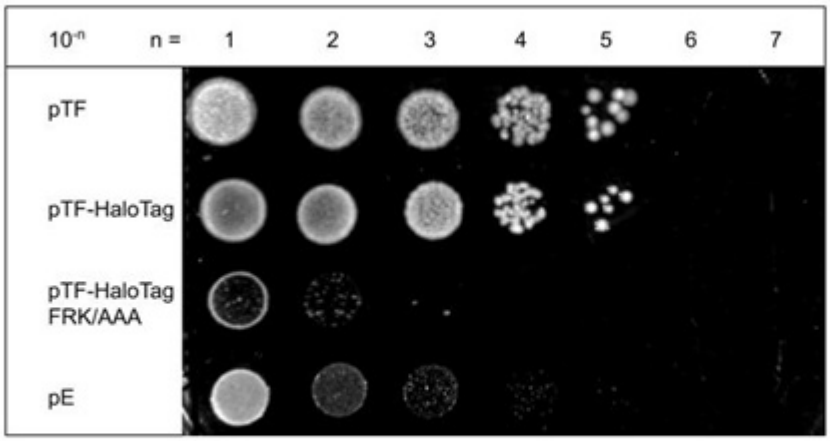
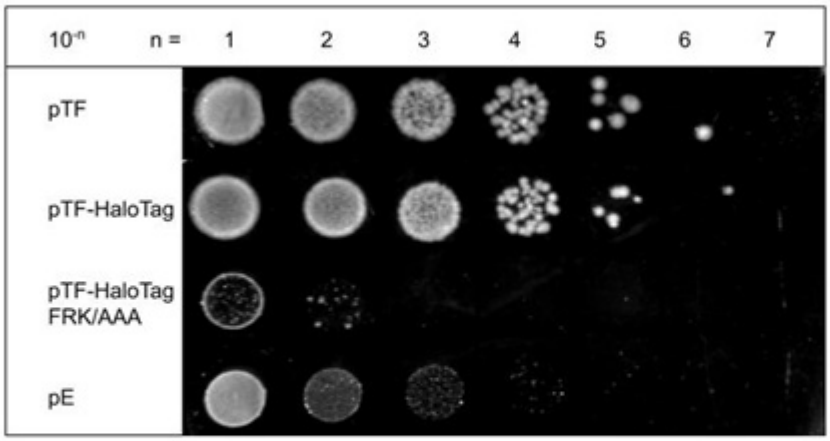


Figure 4: results from growth assay on 2022-11-18, batch B

221121_Shadowfax_batch_B.jpg



End of Part 3

Last edited: 21 Nov 2022 12:15 (UTC + 2) Submitted: 21 Nov 2022 12:16 (UTC + 2)

This space has been intentionally left blank

Recorded by:	Date:	Date: