

# Generation of stable cell lines

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## 1. Killing curve

Using your cell line of interest, determine the lowest concentration of antibiotics you will use for selection.

## 2. Transfection

Transfect cells in 35 mm dish with your plasmid and incubate for 2 days.

Trypsinize cells, transfer to 15-ml a conical tube, spin and remove S/N.

Resuspend cell pellet in 10 ml media.

Transfer individually 4 ml, 2 ml, 1 ml, 0.5 ml, 0.3 ml of suspended cells to 10 cm dish harboring selection antibiotics.

## 3. Selection

Wait until colonies form. The time required for colonies to form depends on which antibiotics you use.

N.B. For G418 (Geneticin), it usually takes more than a week; for puromycin, less than a week. Unless media turn orange, you don't have to change the media.

## 4. Picking up colonies

Remove media and wash in 10 ml PBS.

Add 1 ml of trypsin and incubate for 1 min (exact) at RT. Do not go overboard.

Remove trypsin and add 5 ml PBS.

Using 200p pipetman set at 100  $\mu$ l, wiggle the tip around a colony a bit and suck up.

Release the sucked-up colony into a well of 24-well dish.