#### Hek 293S Transfection

### The day before transfection

Culture 293 cells to a density of 2x10<sup>6</sup> cells/ml in DMEM-F12 + 10% FBS + 1% anti-anti

# I.Transfection day {Morning procedure to avoid late night} (Invitrogen)

- 1.)Count the cells (1.5-2 x 10<sup>6</sup> cells/ml to make sure they're in log phase)
- 2.)Seed each well of a 6-well plate with 2ml of  $0.6 \times 10^6$  cells/ml to achieve ~70% confluence. Allow the cells to attach for ~15 minutes at 27-28 C {Note: Prepare transfection mixture in waiting time.}
- 3.)Remove the old medium, wash with Opti-MEM medium once
- 4.)Add 2ml of Opti-MEM medium
- 5.)Add combined transfection mixture ( $\sim$ 200ul) dropwise onto each well, and incubate at 37C overnight at 5% CO<sub>2</sub>.

## Preparation of Transfection mixture for each well

- 1.) Prepare (a) Lipofectamine 2000: 8ul (Lipofectamine) + 100ul Opti-MEM medium in a microfuge.
- 2.)Prepare (b) DNA: 1ul (1-2.5ug pQCXIP-GOI) + 100ul Opti-MEM in a microfuge.
- 3.)Add preparation (a) and (b) and incubate 5 min at room temperature in the fume hood.

Tube (a)=
$$(100 \times 6 = 600) + (8 \times 6 = 48) = 648$$
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Tube (b)= 
$$(100 \times 6 = 600) = (1 \times 6 = 6) = 606 \text{u}$$

Tube (a) 
$$+(b) = ^1200ul$$

#### Harvesting

- 1.) After 12-16 hours incubation time, aspirate the transfection mixture. Add DMEM-F12 + 10% FBS + 1% anti-anti to the cells (2ml in each well). No wash step necessary.
- 2.)Add 10mM sodium butyrate and drop the temperature to 30 C
- 3.) Harvest 48 hours later