**HEK293 cells Transfection**

Transfection in a 6 well plate using Lipofectamine

* For Transfection in 6-well dish, 70-80% confluency is desirable.
* For each well, do not exceed more than 3µg of total DNA to be transfected.
* Carry out all the procedures in the BSC
* A general idea of transfection in shown below (obtained from Thermofisher)



* Add 6µl of Lipofectamine 2000 reagent to 150µl of Optimem in a microfuge tube and incubate for 5 min.
* During this 5 min, prepare your DNA in a fresh new microfuge tube. Add 150µl of optimum to this DNA.
* Gently mix the DNA-Optimem solution using a pipette and add it carefully to the Lipofectamine-Optimem solution.
* Incubate for 20min
* After 20 min, gently pipette out the entire contents (DNA-Lipofectamine-Optimem mix) and add it to the desired well.
* Label your plates accordingly.
* Incubate for 48h at 37°C.
* Check for the health of the cells during this incubation period and before lysing the cells at the endpoint, check them under the microscope to determine the efficiency of transfection (if the DNA had a fluorescent protein gene).