- Announcements
- Pre-lab Lecture
  - Tissue culture tips
  - Lipofection workflow
  - Samples for HR experiment
  - Today in Lab: M1D6

#### **Announcements**

- Next time: flow cytometry in shifts
  - sign up on M1D7 "Talk" page
- First blog post due Oct 5<sup>th</sup> by midnight
- No class Oct 9<sup>th</sup> or 10<sup>th</sup>
- Slide summary due Oct 11<sup>th</sup> by 11 AM
- Oral defenses Oct 12<sup>th</sup>, 4-5 pm in 56-202
- OH tentatively Oct 9<sup>th</sup> 4-5 pm, only

## Tissue culture tips

- Set up a few inches behind the barrier/grate
- Minimize opportunities to bump or expose sterile equipment or your samples
  - Uncap bottles before opening pipet
  - Keep tips and dishes closed when not in use
  - Avoid passing your hands/arms over open dishes
  - Don't try to hold > 2 things at once! ☺
- Take care not to clog the pipet-aids

## Lipofection method

- DNA carrier is similar to the cell membrane
- Efficient transfection (can be >95%)

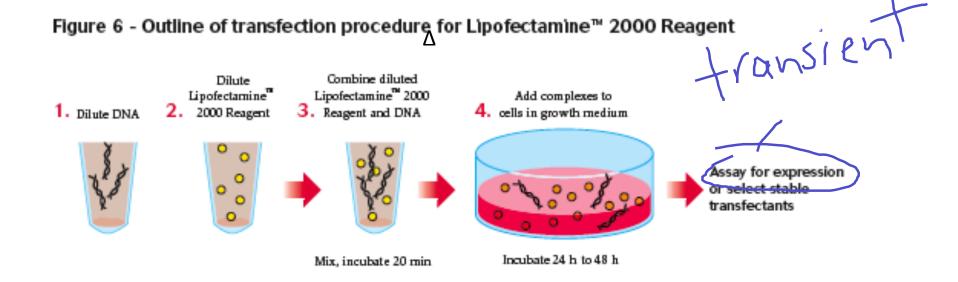
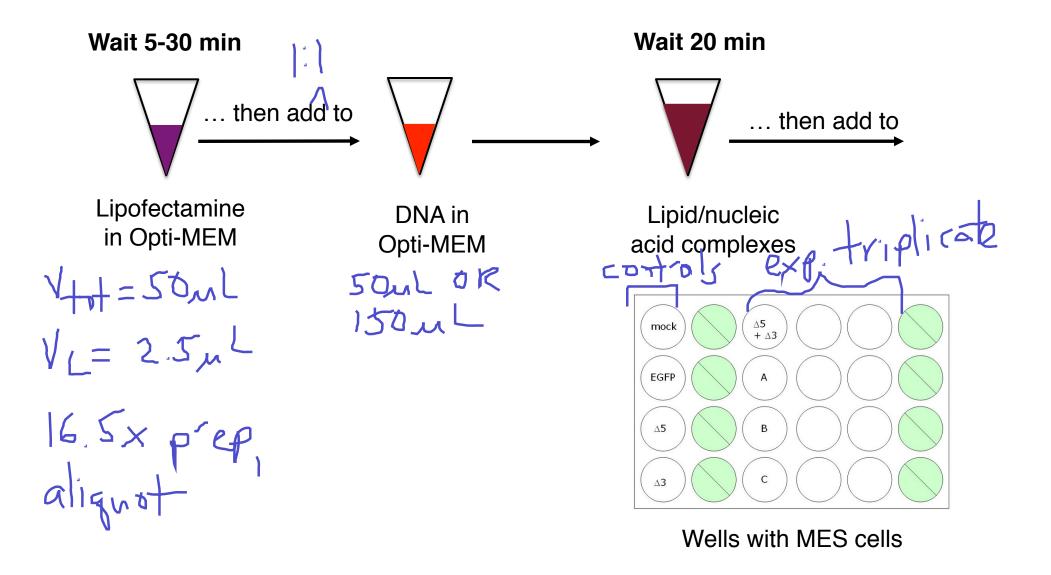


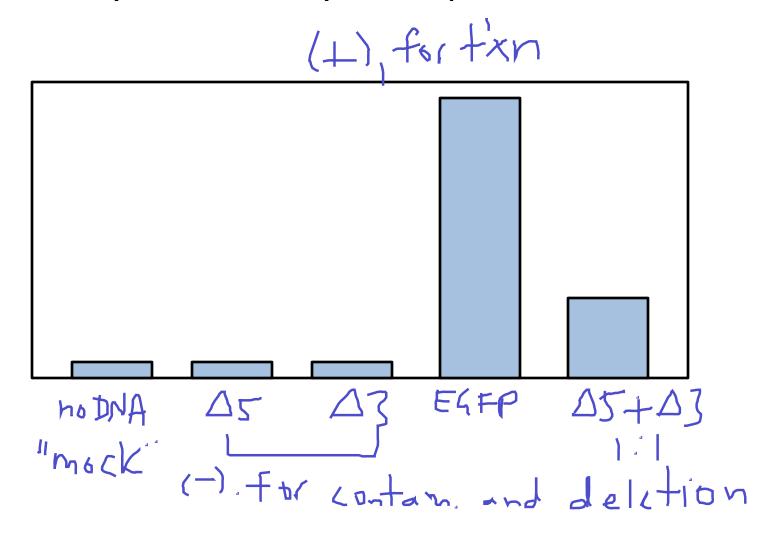
Figure from Invitrogen website

## Lipofection workflow



## Controls for HR assay

How do you know if your experiment worked?



# Experimental samples for HR assay

How might we increase HR frequency?

Plan for today

- Baseline: | |

-A: 1:2 -B: 1: 10 -C: 7 your idea 0,05

## Today in Lab: M1D6

- One hour lab certification
- Lipofection of MES in TC
- Oral defenses with Jenny