Tamoxifen injection protocol

1. Dissolve Tamoxifen (Sigma, T5648) in 100% ethanol to make concentration 10 mg/ml.
2. Aliquot 10 mg/ml Tamoxifen into 0.5 ml PCR tubes (200 µl/ tube). Store in -20°C and protect from light.
3. Right before injection, add 300 µl of corn oil (Sigma, C8267) to a 1.5 ml tube and add the needed amount of 10 mg/ml tamoxifen (ex. 100 µl if need to inject 1 mg) to corn oil. Make sure there is no precipitate in 10 mg/ml tamoxifen tube, vortex and pipette up and down if there is any precipitate.
4. Vortex and spin down for few seconds, then use vacuum centrifuge to get rid of ethanol so tamoxifen can mix into corn oil.
5. Inject pregnant female mouse using 1 ml syringe (BD 309602) and 21G 5/8 needle (BD 305122) in the animal room, and inject between inner thigh and genitals for IP injections to ensure no organs are punctured.
6. Inject slowly and leave needle in around 2 seconds to minimize back flow or solution loss.
7. Bring up the injected female mouse on the day of dissection.