**Lab Course Reagents**

**PCR Mix:**

**10mM dNTPs** : ThermoFisher cat # [**18427088**](https://www.thermofisher.com/order/catalog/product/18427088); $555 per 1 mL (see below)

Phusion Enzyme + Buffer : ThermoFisher cat #F530S; $121 per 110ul ( see below)

**Isothermal mix:**

5x isothermal reaction buffer recipe:

Reagent                           Need

1M Tris HCl pH 7.5        3mL

1M MgCl2 300µL

10mM dNTP mix           600µL thermofisher cat # [**18427088**](https://www.thermofisher.com/order/catalog/product/18427088); $555 per 1 mL

1M DTT                             300µL

Peg-8000                         1.8g

NAD                                   20mg

ddH2O                               up to 6mL

To make working concentration from 5X buffer:

             Reagent                      Need

1 aliquot of 5x buffer 320µL

**T5 exonuclease** 1.2µL ThermoFisher Cat #M0663S NEB; $69 / 1mL

**Phusion Polymerase** 20µL ThermoFisher cat #F530S; $121 per 10ul

**Taq ligase** (M0208L)     160µL NEB Cat # M0208L; $332 per 250ul

ddH2O     700µL

Aliquot into 15µL reactions in PCR tubes and store in -20˚C.

(Makes 2.4mL aka 160 aliquots of 15uL)

**SiR Tubulin:**

Fisherscientific Kit: [**Cytoskeleton, Inc. SiR-Tubulin Kit**](https://www.fishersci.com/shop/products/sir-tubulin-kit/NC0958386)

**Cat #** NC0958386 $647.82

**RNAi Reagents:**

Promega Kit: [**Promega T7 RiboMAX™ Express RNAi System**](https://www.fishersci.com/shop/products/promega-t7-ribomax-express-rnai-system/PRP1700)

**Cat #** PRP1700 $846.50

**S2 Culture Reagents:**

Heat Inactivated Fetal Bovine Serum: [ThermoFisher Cat # 10082147](https://www.thermofisher.com/order/catalog/product/10082147)

**500mL $593.60**

Antibiotic-Antimycotic: [ThermoFisher Cat # 15240-062](https://www.thermofisher.com/order/catalog/product/15240062?SID=srch-hj-15240-062)

100mL $36.98

S2 media (4 bottles): [ThermoFisher Cat # 21720-024](https://www.thermofisher.com/order/catalog/product/21720024?SID=srch-hj-21720-024)

500mL $36.37

Zymo Research Miniprep Kit: [ZR Plasmid Miniprep Cat # D4015](https://www.zymoresearch.com/products/zr-plasmid-miniprep-classic?variant=32298443374674&currency=USD&utm_medium=product_sync&utm_source=google&utm_content=sag_organic&utm_campaign=sag_organic&gclid=Cj0KCQjwrs2XBhDjARIsAHVymmSvq9xYYUiVaLPf8LqlZScuZe_UNAD1UIgkByv5_9IGcthLBCKlMaYaAmzkEALw_wcB)

100 preps $130.90