

Sequencing Preparation

Rationale:	
Special Observations:	
Results:	
Interpretation:	

Experiment Date:
Experiment Time:

Source: [Cornell Sequencing Handbook](#)

Primary Experimenter (contact):
Other Experimenters:

Assembled: 6/27/2012

Reagent	Details	Quantity
ddH ₂ O (nuclease-free)		Up to 18 μ L
Primer (10 μ M stock)	Conc. labeled on microfuge tubes in primer box	1 μ L
DNA template		*Var.
Sequencing tube		

*Plasmid, ~1 μ g; PCR product, #base pairs/5.0 = amount of PCR product in ng that we need

Example: 250bp PCR product. 250bp \div 5.0 = 50ng of DNA + 8 pmole primer in 18ul (Note: maximum PCR product concentration is 100ng/ μ l)

Order #	Template	Template conc. (ng/ μ L)	Template volume (μ L)	Primer ID
-	Plasmid ID , Sample name; Ex) p8, Gibson 1			Ex) 0033
1				
2				
3				
4				
5				
6				
7				

8				
9				
10				
11				
12				
13				
14				
15				

NOTE: Please write calculations on back of sheet.

Procedure:

Critical Steps:

- Clearly label all sequencing tubes before beginning
- NEVER add primers directly from blue cap tubes, only the diluted 10 µM stocks

NOTE:

For primers that aren't strictly sequencing primers, stocks are 10µM. These can still be used for sequencing.

Label microcentrifuge tubes

- Write the order # on the top of the tube
- Write the Order name on the side of the tube
- Ex) "Gibson 1" on side, "1" on top

Calculate µL of DNA template to add to reach desired amount

$$\frac{\text{Desired ng DNA}}{\text{X DNA template } \left(\frac{\text{ng}}{\mu\text{L}} \right)} = (\text{Y } \mu\text{L to add for desired ng DNA})$$

- Aim for ~1 µg for plasmid DNA
- Please write calculations on backs of the front pages of this protocol

Calculate µL of ddH2O to add

- $(17 \mu\text{L}) - (\text{Y } \mu\text{L to add for desired } \mu\text{g DNA}) = (\mu\text{L H2O to add})$
- Please write calculations on backs of the front pages of this protocol

Add ddH2O, primer, and finally DNA template to tube

- Add primer from the 10 µM stock

Place all tubes into a Ziploc bag and record the date & order ID from BRC on bag