Sequencing Preparation

Rationale:		
Special		
Observations:		
Results:		
Interpretation:		
Experiment Dat	te:	Source: Cornell Sequencing
Experiment Time:		<u>Handbook</u>
Primary Experi	menter (contact):	Assembled: 6/27/2012

Reagent	Details	Quantity
ddH2O (nuclease-free)		Up to 18 μL
Primer (8 µM stock)	Conc. labeled on microfuge tubes in primer box	1 μL
DNA template		*Var.
Sequencing tube		

^{*}Plasmid, ~1 µg; PCR product, #base pairs/5.0 = amount of PCR product in ng that we need Example: 250bp PCR product. 250bp ÷ 5.0 = 50ng of DNA + 8 pmole primer in 18ul (Note: maximum PCR product concentration is 100ng/ul)

Other Experimenters:

Order #	Template	Template conc. (ng/µL)	Template volume (µL)	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 8 µM stocks

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

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

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

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

☐ Calculate µL of ddH2O to add

- \circ (17 µL) (**Y** µL to add for desired µg DNA) = (µL H2O to add)
- Please write calculations on backs of the front pages of this protocol
- - Add primer from the 8 μM stock