### Monday 10/19/09

Nanodrop of miniprepped Pu/GFP and PrXyIR/LeuLP ligation products

A nanodrop was performed for the 7 samples that were miniprepped yesterday according to the protocol on 7/25/09

Digestion of miniprepped Pu/GFP and PrXyIR/LeuLP ligation products

A digest will be performed for all of the samples miniprepped yesterday according to the protocol on 7/25/09 for 6 hours. The reagents will be mixed in the following proportions:

Amounts (uL)	Pu GFP	Pr LeuLP					
	1:1 #1	1:1 #2	1:3 #1	1:3 #2	1:6 #1	1:6 #2	1:3
Ultra pure	40.75	40.75	40.75	40.375	41	40.2	38.5
water							
NEB 2 Buffer	5	5	5	5	5	5	5
BSA	0.5	0.5	0.5	0.5	0.5	0.5	0.5
DNA	2.75	2.75	2.75	3.125	2.5	3.3	5
EcoRI	1	1	1	1	1	1	1

### Gel of digested Pu/GFP and PrXylR/LeuLP

A gel was run of the above digestion samples with the cut backbone used in the ligation as a reference according to the protocol on 7/27/09.

Submitting Parts to the Registry

- 1. In a single PCR tube dilute DNA
  - a. The concentration cannot be lower than 2ng/uL
  - b. Add 2 uL of DNA to 8 uL of ultra pure water
- 2. Wrap the PCR tube with label tape and give each tube a number
- 3. Cap the PCR tube and place inside a 50 mL falcon tube
- 4. Follow the instructions for submitting DNA on the registry

#### Results

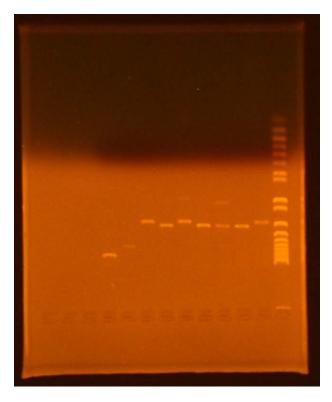
Nanodrop of miniprepped Pu/GFP and PrXylR/LeuLP ligation products

## 10/19/2009 9:42 AM

Sample ID	ng/uL	A260	260/280	260/230	Constant
Pu/GFP 1:1 #1 ligation	182.22	3.644	1.90	2.30	50
Pu/GFP 1:1 #2 ligation	183.83	3.677	1.86	1.84	50
Pu/GFP 1:3 #1 ligation	181.75	3.635	1.90	2.30	50

Pu/GFP 1:3 #2 ligation	166.33	3.327 1.92	2.32	50
Pu/GFP 1:6 #1 ligation	202.72	4.054 1.89	2.02	50
Pu/GFP 1:6 #2 ligation	148.52	2.970 1.83	1.49	50
PrXylR/leuLP 1:3 ligation	108.05	2.161 1.92	2.28	50

# Gel of digested Pu/GFP and PrXylR/LeuLP



Lane 1 (far right): Invitrogen 1 kb plus ladder

Lane 2: GFP backbone used in the ligation

Lane 3: Pu 1:1 #1

Lane 4: Pu 1:1 #2

Lane 5: Pu 1:3 #1

Lane 6: Pu 1:3 #2

Lane 7: Pu 1:6 #1

Lane 8: Pu 1:6 #2

Lane 9: LP backbone used in the ligation

Lane 10: PrXylR 1:3

The expected length of the Pu/GFP ligation is approximately  $2450\ bp$ 

Pu: 370 bpGFP: 2080 bp

The expected length of the PrXylR/leuLP ligation is approximately 8140bp

PrXylR: 2340 bpleuLP: 5800 bp

# Submitting Parts to the Registry

 $Pu/GFP\ 1:1\ \#1\ ligation\ and\ PrXylR\ 1:3$  were submitted to the registry as Bba\_K270002 and Bba\_K270001 respectively.