

**Monday 9/14/09***Nanodrop of Pu GFP leu landing pad ligation*

A nanodrop was performed for all of the miniprep samples of the Pu GFP leu landing pad ligation from yesterday according to the protocol on 7/25/09.

*Digest of the miniprep Pu GFP leu landing pad ligation with EcoRI*

The digest was performed to the protocol on 7/25/09 mixing the reagents in the following amounts:

Amounts (uL)	Pu GFP leu ligations
Ultra pure water	23.5
NEB 2 Buffer	5
BSA	0.5
DNA	20
EcoRI	1
XbaI	XXX
SpeI	XXX
PstI	XXX

Since the digestions is being carried out to check if the ligation worked, it is not critical that all samples have 500 ng of DNA, so a rough estimate of 20 uL was used for each DNA sample.

**Results***Nanodrop of Pu GFP leu landing pad ligation*

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Sample ID	ng/uL	A260	260/280	260/230	Constant
Pu GFP leu 1:1 #1	22.83	0.457	1.93	1.57	50
Pu GFP leu 1:1 #2	26.32	0.526	1.90	1.84	50
Pu GFP leu 1:1 #3	16.36	0.327	1.70	1.46	50
Pu GFP leu 1:3 #1	22.70	0.454	2.00	1.83	50
Pu GFP leu 1:3 #2	21.06	0.421	1.87	1.62	50
Pu GFP leu 1:3 #3	23.60	0.472	1.89	1.80	50
Pu GFP leu 1:6 #1	24.73	0.495	1.83	1.43	50
Pu GFP leu 1:6 #2	35.08	0.702	2.01	2.04	50
Pu GFP leu 1:6 #3	25.50	0.510	1.88	1.78	50

All of the samples showed strong peaks at 260 nm indicating the samples are pure.