8-9-13

Steven, Parth

5 GFP cultures (1, 2, 3, 4, 5)

- Plasmid Preps of the GFP cultures
- Digest as downstream part

Plasmid	15 t
EcoR-I	3
PstI	3
NeBuffer 2	15
dH_2O	150

- size check w/ gel:

Cadmium Test Result -3

Date 8/9/13

Sample		Concentration	OD600	Fluorescence	Ratio
Control DH5α (sample A)	1.	0mM	.160	.330	2.0625
	2.	5mM	.001	.059	59
	3.	50mM	.212	.072 (1)	3.396
K824008 (sample B)		0 mM	.937	.320 (1)	3.415
		5 mM	.031	.134	4.323
		50mM	.234	.388 (1)	16.581
mK824008A old-1 (sample C)		0 mM	.820	.522 (1)	6.366
		5 mM	.182	.710	3.901
		50 mM	.965	.103 (11)	10.674
mK824008A old-2 (D)		〃	.824	.512 (1)	6.214
		〃	.000	.060	
		〃	.970	.131 (11)	13.505
mK824008A old-3 (E)		〃	.795	.339 (1)	4.264
		〃	.094	.357	3.798
		〃	1.228	.278 (11)	22.638
mK824008A old-4 (F)		〃	.717	.831 (1)	11.590
		〃	.016	.114	7.125
		〃	1.075	.617	.574
mK824008A old-5 (G)		〃	.820	.301 (1)	3.671
		〃	.052	.242	4.654
		〃	.819	.424 (1)	5.177
mK824008A old-6 (H)		〃	.848	.542 (1)	6.392
		〃	.047	.139	2.957
		〃	1.111	.209 (11)	18.812
mK824008B new-1 (I)		〃	.723	.586 (1)	8.105
		〃	.010	.060	6.000
		〃	1.141	.975 (1)	8.545
mK824008B new-2 (J)		〃	.840	.329 (1)	3.917
		〃	.001	.050	
		〃	.983	.882 (1)	8.973
mK824008A new-1 (K)		〃	.803	.427 (1)	5.318
		〃	.001	.086	
		〃	1.153	.151 (11)	13.096

* note subtract .020 from fluorescence

Sample	Concentration	OD500	Fluorescence	Ratio
mK824008A new-2 (L) ✓	0 mM	.773	.441 (1)	5.705
	5 mM	.018	.312	17.333
	50 mM	.809	.660 (1)	8.158
Trans 3-1 (M) ✓	0 mM	.862	.501 (1)	5.812
	5 mM	.039	.331	8.487
	50 mM	1.000	.131 (11)	13.1

Gel Check Plasmid Preps

✓ = bands present

Gel 1

1 ladder
2 GFP-2 ✓
3 GFP-1 ✓
4 1-1C1
5 1-1C2
6 1-1C3
7 1-2C1
8 1-2C2 ✓

1 ladder
2 2-2C2
3 2-2C3
4 2-6C3
5 2-6C1 ✓
6 2-7C1 ✓
7 2-7C2 ✓
8 2-7C3 ✓

Gel 2 top

1 ladder
2 1-2C3 ✓
3 1-3C1 ✓
4 1-3C2 ✓
5 1-3C3 ✓
6 1-4C1 ✓
7 1-4C2 ✓
8 1-4C3 ✓

Gel 3 ~~[illegible]~~ (1 = ladder)

2. 1 ~~ladder~~ 1-5C1 ✓
3. 2 1-5C2
4. 3 1-5C3 ✓
5. 4 2-1C3 ✓
6. 5 2-1C1 ✓
7. 6 2-1C2 ✓
8. 7 2-2C1 ✓