

**(A)**

<b>PEI</b>	<b>(-)</b>	<b>(-)</b>	<b>(+)</b>	<b>(+)</b>
<b>DNase</b>	<b>(-)</b>	<b>(+)</b>	<b>(-)</b>	<b>(+)</b>

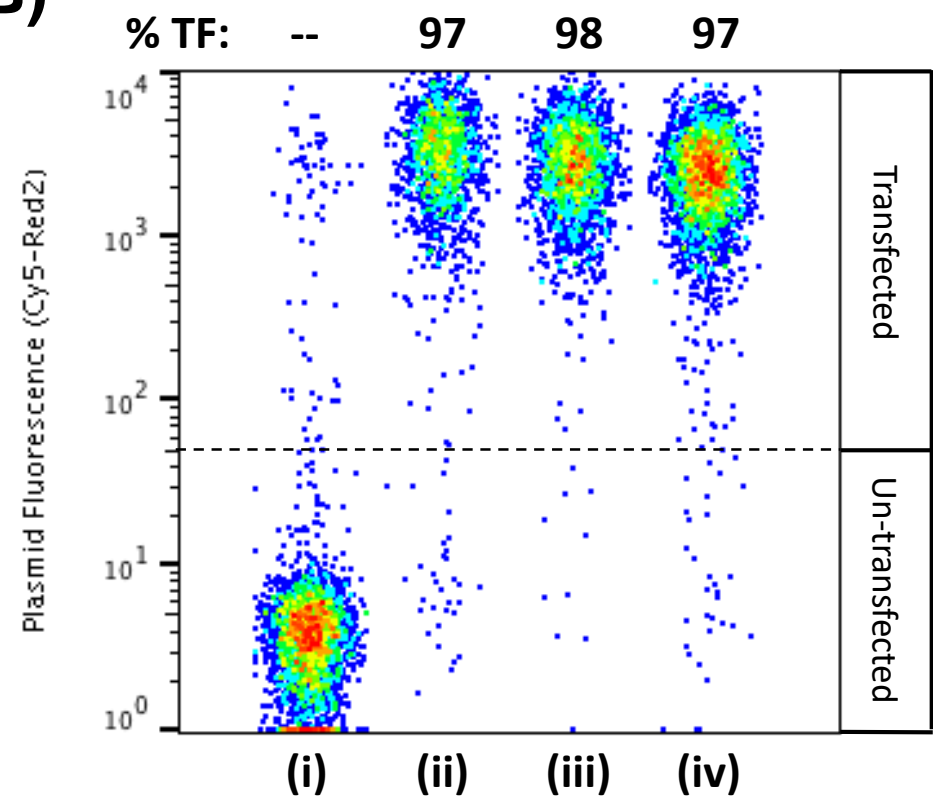
4min

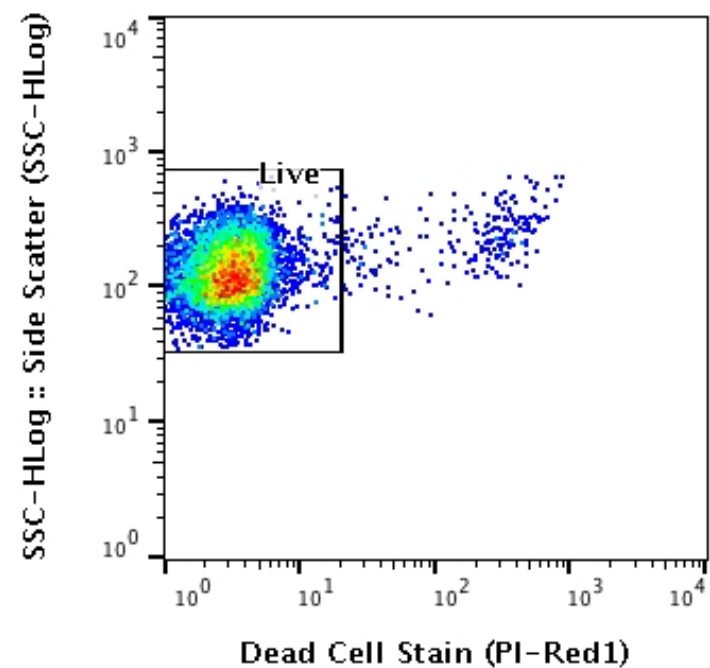
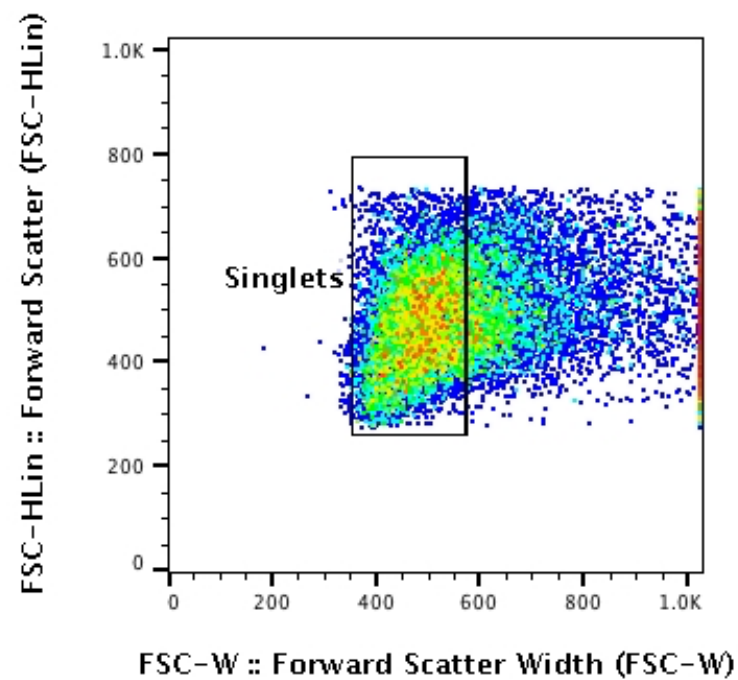
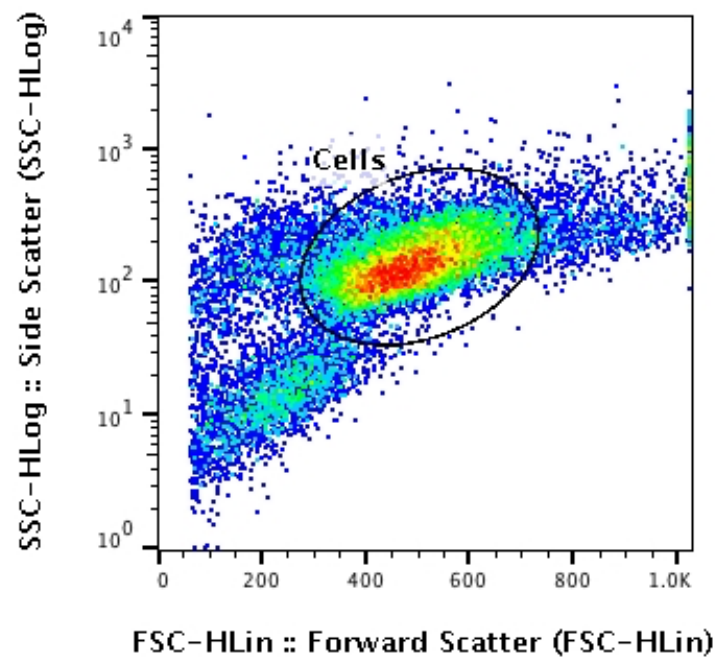


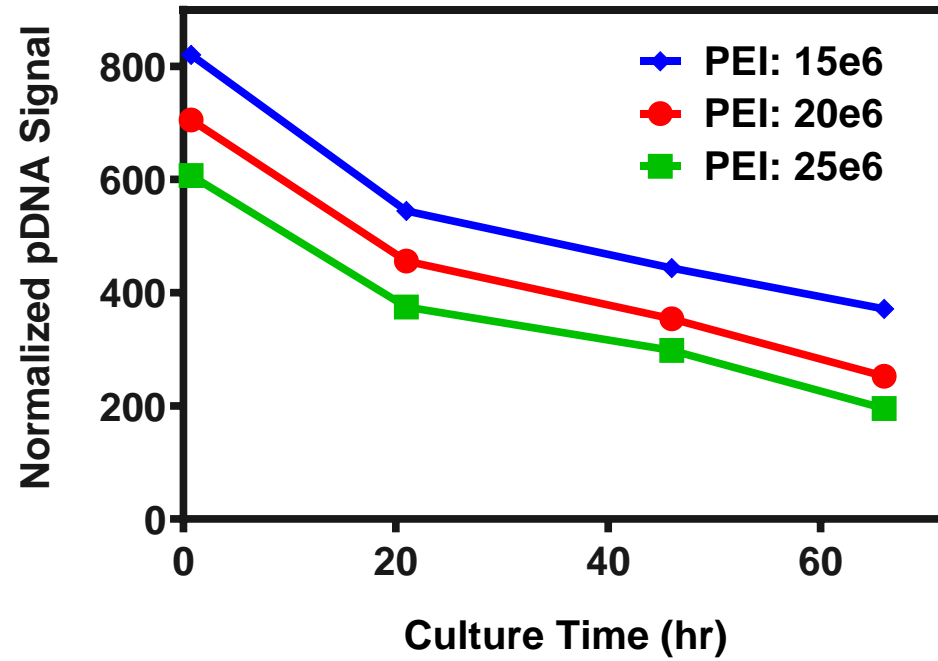
10min



**(B)**







Viable Cell Density (VCD) - [e6cells/mL]						
	(+ Cy5 Label)			(-) Cy5 Label [ avg. n=2]		
Time (day)	TFD - 15e6	TFD - 20e6	TFD - 25e6	TFD - 15e6	TFD - 20e6	TFD - 25e6
0	9.6	9.9	10.5	10.2	10.6	9.7
1	11.0	12.7	13.8	12.0	12.6	13.3
2	8.6	12.7	16.7	11.6	12.6	14.4
3	1.7	7.9	13.9	7.4	9.9	11.3
4	0.1	2.1	6.9	2.9	7.3	8.7

Viability [%]						
	(+ Cy5 Label)			(-) Cy5 Label [ avg. n=2]		
Time (day)	TFD - 15e6	TFD - 20e6	TFD - 25e6	TFD - 15e6	TFD - 20e6	TFD - 25e6
0	85	90	94	83	87	91
1	86	93	94	79	85	91
2	68	83	90	72	84	89
3	26	60	80	57	65	74
4	5	27	54	27	52	63

Specific Productivity (Qp) - [pg/cell/day]						
	(+ Cy5 Label)			(-) Cy5 Label [ avg. n=2]		
Time (day)	TFD - 15e6	TFD - 20e6	TFD - 25e6	TFD - 15e6	TFD - 20e6	TFD - 25e6
0	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
1	#N/A	#N/A	#N/A	0.3	0.4	0.4
2	0.5	0.5	0.4	-0.1	1.0	1.3
3	1.7	1.4	1.5	0.1	1.0	1.5
4	--	0.9	0.7	0	0.1	0.1
Average	1.1	0.9	0.9	0.1	0.6	0.8