(A)  

|       | PEI | DNase | 4min | 10min |
|-------|-----|-------|------|-------|
| (-)   | (-) | (-)   | (-)  | (+)   |
| (+)   | (+) | (+)   | (+)  | (+)   |

(B)  

Transfected
Un-transfected

% TF: 97 98 97

Plasmid Fluorescence (Cy5-Red2)
### Viable Cell Density (VCD) - [e6cells/mL]

| Time (day) | (+) Cy5 Label | (-) Cy5 Label [ avg. n=2] | (+) Cy5 Label | (-) Cy5 Label [ avg. n=2] | (+) Cy5 Label | (-) Cy5 Label [ avg. n=2] | (+) Cy5 Label | (-) Cy5 Label [ avg. n=2] |
|------------|----------------|-----------------------------|----------------|-----------------------------|----------------|-----------------------------|----------------|-----------------------------|
| 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 [%]

| Time (day) | (+) Cy5 Label | (-) Cy5 Label [ avg. n=2] | (+) Cy5 Label | (-) Cy5 Label [ avg. n=2] | (+) Cy5 Label | (-) Cy5 Label [ avg. n=2] | (+) Cy5 Label | (-) Cy5 Label [ avg. n=2] |
|------------|----------------|-----------------------------|----------------|-----------------------------|----------------|-----------------------------|----------------|-----------------------------|
| 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]

| Time (day) | (+) Cy5 Label | (-) Cy5 Label [ avg. n=2] | (+) Cy5 Label | (-) Cy5 Label [ avg. n=2] | (+) Cy5 Label | (-) Cy5 Label [ avg. n=2] | (+) Cy5 Label | (-) Cy5 Label [ avg. n=2] |
|------------|----------------|-----------------------------|----------------|-----------------------------|----------------|-----------------------------|----------------|-----------------------------|
| 0          | #N/A           | #N/A                         | #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                         |