**Efficacy of cDNA generation & dye-coupling.** Table of titration series of total RNA starting amounts, resultant cDNA generation, dye-coupling, and array hybridization.

<table>
<thead>
<tr>
<th>Input RNA (ng)</th>
<th>aminoallyl-cDNA (ng)</th>
<th>Dye-coupled cDNA (ng)</th>
<th>Dye Incorp. (fmol/ng)</th>
</tr>
</thead>
<tbody>
<tr>
<td>500</td>
<td>463 +/- 13</td>
<td>241 +/- 4</td>
<td>17.2 +/- 0.4</td>
</tr>
<tr>
<td>2,000</td>
<td>630 +/- 26</td>
<td>393 +/- 3</td>
<td>14.9 +/- 0.5</td>
</tr>
<tr>
<td>5,000</td>
<td>928 +/- 12</td>
<td>655 +/- 4</td>
<td>30.1 +/- 0.4</td>
</tr>
<tr>
<td>10,000</td>
<td>1502 +/- 35</td>
<td>669 +/- 3</td>
<td>29.4 +/- 0.2</td>
</tr>
</tbody>
</table>

**Consistency of Technical Replicates.** Pearson’s coefficient of correlation for comparisons of three replicates for at the gene- (log₂ ratio) and individual probe-level (log₂ ratio, Cy3 Intensity, Cy5 Intensity).

**Correlation of signal intensity across a self-hybridization dilution series.** Pearson’s coefficients of correlation between diminishing amounts of self-hybridized cDNA pools for Cy5 (bottom left) and Cy3 (top right) mean signal intensity (n=3) for 4810 genes.