Supplementary Figures 1a & 1b:

Northern blots confirm the tissue-specific expression patterns observed by our single molecule method.

(a) Pre-blotted Northernns were purchased from Ambion, Inc. and probed with $^{32}$P end-labeled RNA probes complementary to the indicated miRNAs. The miRNA expression was quantified and the data was normalized to the tissue whose expression represented the median.

(b) Fold differences in expression across the ten tissues were compared to the fold difference observed in our single molecule assay. The data was fit using ordinary least squares fit of a simple linear model.