

ABSTRACT**GENE-EXPRESSION PROFILING WITH REDUCED NUMBERS OF TRANSCRIPT MEASUREMENTS**

The present invention provides compositions and methods for making and using a
5 transcriptome-wide gene-expression profiling platform that measures the expression levels of
only a select subset of the total number of transcripts. Because gene expression is believed to
be highly correlated, direct measurement of a small number (for example, 1,000) of
appropriately-selected transcripts allows the expression levels of the remainder to be inferred.
The present invention, therefore, has the potential to reduce the cost and increase the
10 throughput of full- transcriptome gene-expression profiling relative to the well-known
conventional approaches that require all transcripts to be measured.

Figure 1