Supplementary Table 1-11

Supplementary table 1. mRNA in HD fractions. Lists of the 3311 mRNAs identified in all four HD samples by microarray analysis and the 13,567 mRNAs identified in both HD samples with next-generation sequencing. Identified mRNAs are listed in alphabetical order.

Supplementary table 2. mRNA in LD fractions. Lists of the 4985 mRNA identified in all three LD samples by microarray analysis and the 8971 mRNAs identified in both LD samples with next-generation sequencing. Identified mRNAs are listed in alphabetical order.

Supplementary table 3. mRNA in cells. Lists of the 9836 mRNAs identified in all three cellular samples by microarray analysis and the 11,353 mRNAs identified in both cellular samples with next-generation sequencing. Identified mRNAs are listed in alphabetical order.

Supplementary table 4. **miRNA in HD fractions**. Lists of the 401 miRNAs identified in all three HD samples by microarray analysis and the 199 miRNAs identified in both HD samples with next-generation sequencing. Identified miRNAs are listed in alphabetical order.

Supplementary table 5. **miRNA in LD fractions.** Lists of the 369 miRNAs identified in all three LD samples by microarray analysis and the 147 miRNAs identified in both LD samples with next-generation sequencing. Identified miRNAs are listed in alphabetical order.

Supplementary table 6. **miRNA in cells.** Lists of the 490 miRNAs identified in all three cellular samples by microarray analysis and the 246 miRNAs identified in both cellular samples with next-generation sequencing. Identified miRNAs are listed in alphabetical order.

Supplementary table 7. Percentage of normalized reads for each RNA biotype for the long library. The ñsmall ncRNAò group contains snoRNA, snRNA, vault RNA, miRNA, and Y RNA, and the ñother ncRNAò group contains RNAs such as immunoglobulin variable chain genes, T-cell receptor genes, pseudogenes, and miscRNA.

Supplementary table 8. **The number of genes in each RNA biotype identified with >10 reads in the long library**. The ñsmall ncRNAò group contains snoRNA, snRNA, vault RNA, miRNA, and Y RNA, and the ñother ncRNAò group contains RNAs such as immunoglobulin variable chain genes, T-cell receptor genes, pseudogenes, and miscRNA.

Supplementary table 9. **The percentage of normalized reads for each RNA biotype for the short library**. The ñother ncRNAò group contains RNAs such as immunoglobulin variable chain genes, T-cell receptor genes, pseudogenes, and miscRNA.

Supplementary table 10. **The number of genes in each RNA biotype identified with >10 reads in the short library**. The ñother ncRNAò group contains RNAs such as immunoglobulin variable chain genes, T-cell receptor genes, pseudogenes, and miscRNA.

Supplementary table 11. **The proteomes of HD and LD fractions**. List of the 2998 total proteins identified in the HD and LD fractions. Absolute protein expression (APEX) was used to calculate relative protein abundance. The HD and LD fractions had 500 proteins in common (|log2 Fold change| <2), while 734 proteins were uniquely identified or enriched in HD fractions (|log2 Fold change| >2) and 1764 proteins were uniquely identified or enriched in LD fractions (|log2 Fold change| >2).