**Additional Files**

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**Additional file 1:** **Figure S1.** PCA of the gene expression table without gene selection for the study of cocaine addiction (**a**) and childhood-onset schizophrenia (COS) (**b**).

**Additional file 2:** **Figure S2.** Example alignments near the region where the oligomers in Figure 5(**c**) are mapped. The positions of the oligomers are indicated by green dotted lines.

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**Additional file 3:** **Figure S3.** PCA of the gene expression table with the genes in Figure 5(**c**) and in Figure 6(**c**).

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Additional file 4:** **Figure S4.** Example alignments near the region where the oligomers in Figure 6(**c**) are mapped. The position of the oligomers is indicated by the arrow.