**Additional Files:**

* File name: Additional file 1
* File format: .png
* Title of data: PCA of the gene expression table without gene selection.
* Description of data: PCA of the gene expression table without gene selection for studying cocaine addiction (**a**) and childhood-onset schizophrenia (COS) (**b**).
* File name: Additional file 2
* File format: .tiff
* Title of data: Example alignments near the region where the oligomers in Figure 5(**c**) are mapped.
* Description of data: The positions of the oligomers are indicated by green dotted lines.
* File name: Additional file 3
* File format: .png
* Title of data: PCA of the gene expression table with the genes in Figure 5(**c**) and in Figure 6(**c**).
* Description of data: PCA of the gene expression table with the genes selected in Figure 5(**c**) for the study of cocaine addiction (**a**) and in Figure 6(**c**) for the study of childhood-onset schizophrenia (COS) (**b**).
* File name: Additional file 4
* File format: .tiff
* Title of data: Example alignments near the region where the oligomers in Figure 6(**c**) are mapped.
* Description of data: The position of the oligomers is indicated by the arrow.