



### S3 Fig. Fluorescence signals of 15-mer, 20-mer and 25-mer ECHOs.

Fluorescence signals observed in melting curves of ECHO/DNA duplexes of 15-mer (A), 20-mer (B) and 25-mer (C). ECHO sequences used are shown in the top of each plot. Red-colored thymidines are the examined labelling positions. 20-mer sequences are same as described in the main text. 15-mer and 25-mer sequences were designed in the same way as for 20-mer described in the main text. All the antisense DNA oligonucleotides used were full-matched sequences of the ECHOs. All replicates were used to draw each boxplot. The first, second and third bases from the 5' and 3' terminal of ECHOs were mainly examined.