A nucleic acid probe labeled with desmethyl thiazole orange: A new type of hybridization-sensitive fluorescent oligonucleotide for live-cell RNA imaging

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Supplementary Information

Fig. S1. HPLC profile after the synthesis of a D′sos-containing oligonucleotide. TTTTTTD′sos- TTTTTTT was analyzed by HPLC (elution with a solvent mixture of 0.1 M triethylamine acetate, pH 7.0, linear gradient over 30 min from 5% to 42.5% acetonitrile at a flow rate of 3.0 mL/min).
**Fig. S2** Emission, absorption, and CD spectra of D’505-containing ODN ODN2(D’505), TTTTTTD’505TTTTTT. Emission and absorption spectra of the probes (0.4 μM) were measured in the presence or absence of the complementary RNA in 50 mM sodium phosphate (pH = 7.0) containing 100 mM sodium chloride. (a) Emission spectra on excitation at 505 nm; (b) absorption spectra; (c) CD spectrum of the hybrid.