ORF1

sense 5’-GUAUUGACAGCUAUUCGAAdTdT-3’

antisense 3’-dTdTCAUAACUGUCGAUAAGCUU-5’

ORF2

sense 5’-GAACUCUUAGCGUAUGCAAdTdT-3’

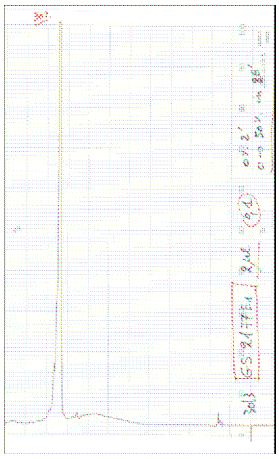
antisense 3’-dTdT CUUGAGAAUCGCAUACGUU

Figure 1S. dsRNA sequences with two dT overhangs at the 3'-end, targeting the MDR1 gene (target regions designated ORF1 and ORF2)

Duplex	Tm (°C)	Duplex	Tm (°C)
ORF 1 target			
2176 / 2583	67.2	2582 / 2183	65.8
2177 / 2583	65.8	2582 / 2184	66.0
2178 / 2583	65.6	2582 / 2185	66.2
2179 / 2583	66.4	2582 / 2186	66.0
2180 / 2583	67.0	2179 / 2183	65.4
2181 / 2583	66.0	2179 / 2186	64.8
2182 / 2583	67.7	2181 / 2183	65.2
2582 / 2583 (control)	66.2	2181 / 2186	65.4
ORF 2 target			
2481 / 2585	70.0	2481 / 2483	70.0
2482 / 2585	70.8	2481 / 2484	69.8
2584 / 2483	70.9	2482 / 2483	70.7
2584 / 2484	71.2	2482 / 2484	70.2
2584 / 2585 (control)	70.4		

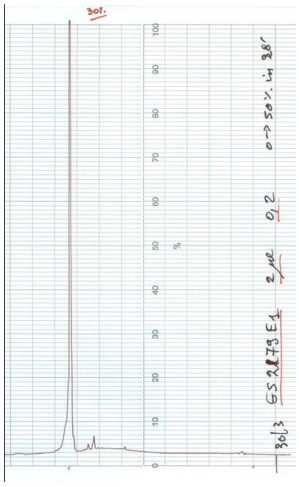
Table 1S Melting points were observed at two wavelengths (260 and 270 nm) after mixing equimolar amounts (4 μm) of both complementary strands as measured in 0.1 M NaCl buffer containing 0.1 mM EDTA and 0.02 M KH2PO4 pH 7.5. Mixtures were rapidly heated to melt duplexes, and then slowly cooled and reheated both at 0.2°C/min., while recording UV absorbance. Tm corresponds to the first derivative of the UV absorption curve, and is the average of at least 2 experiments.

2176

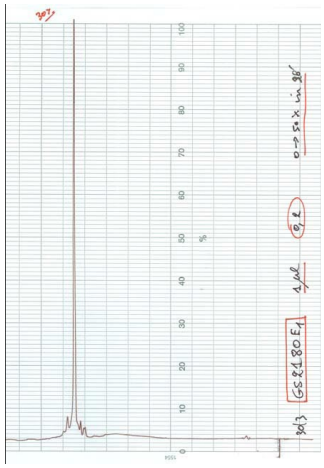


2177

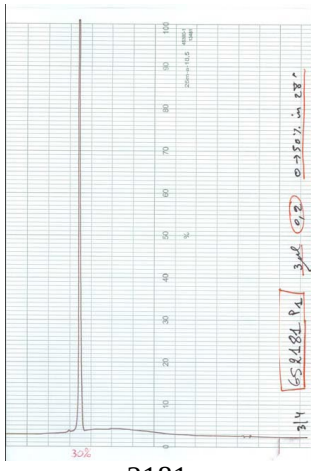
2178



2179



2180



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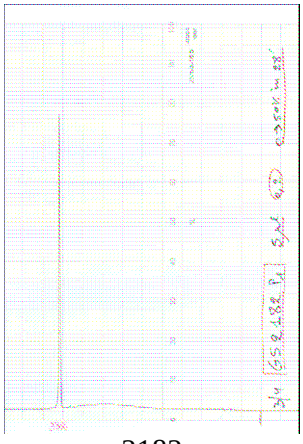
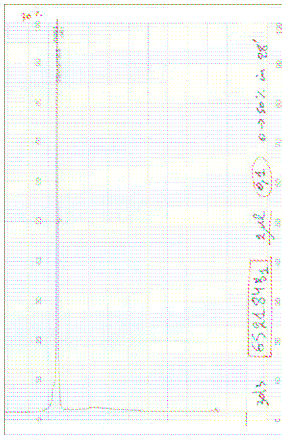


2182

2183



2184

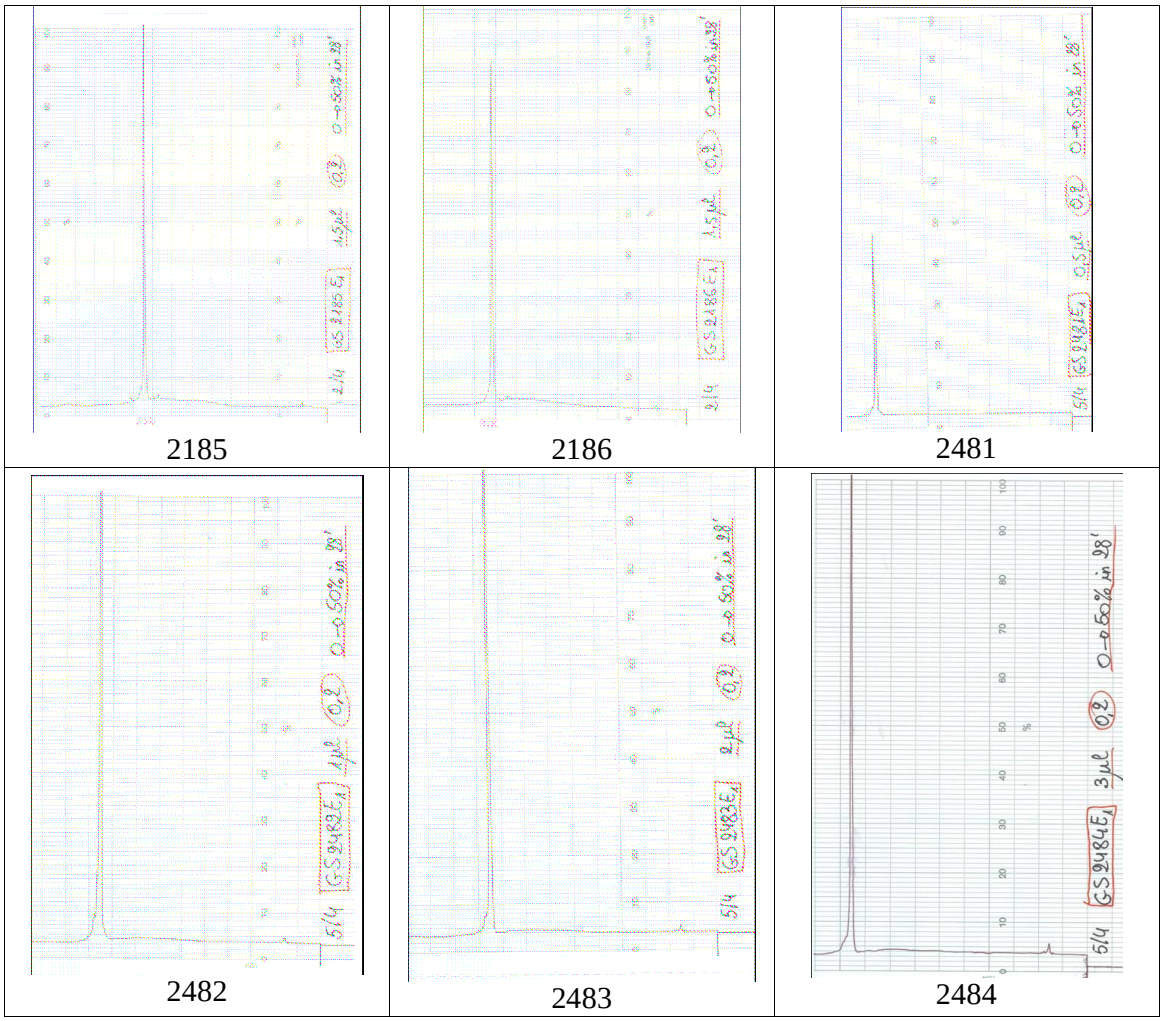


Figure 2S RP HPLC analysis of the anion exchange purified siRNA oligonucleotides (Column: X Bridge C18 5 μm 4.6 x 250 mm Conditions: triethylammonium acetate (TEAA) buffer 0.05 M, pH 7; solvent A: 2% CH3CN; solvent B: 50% CH3CN. Conditions: 2 min. at 0%, 0 to 50%B in 28 min.)