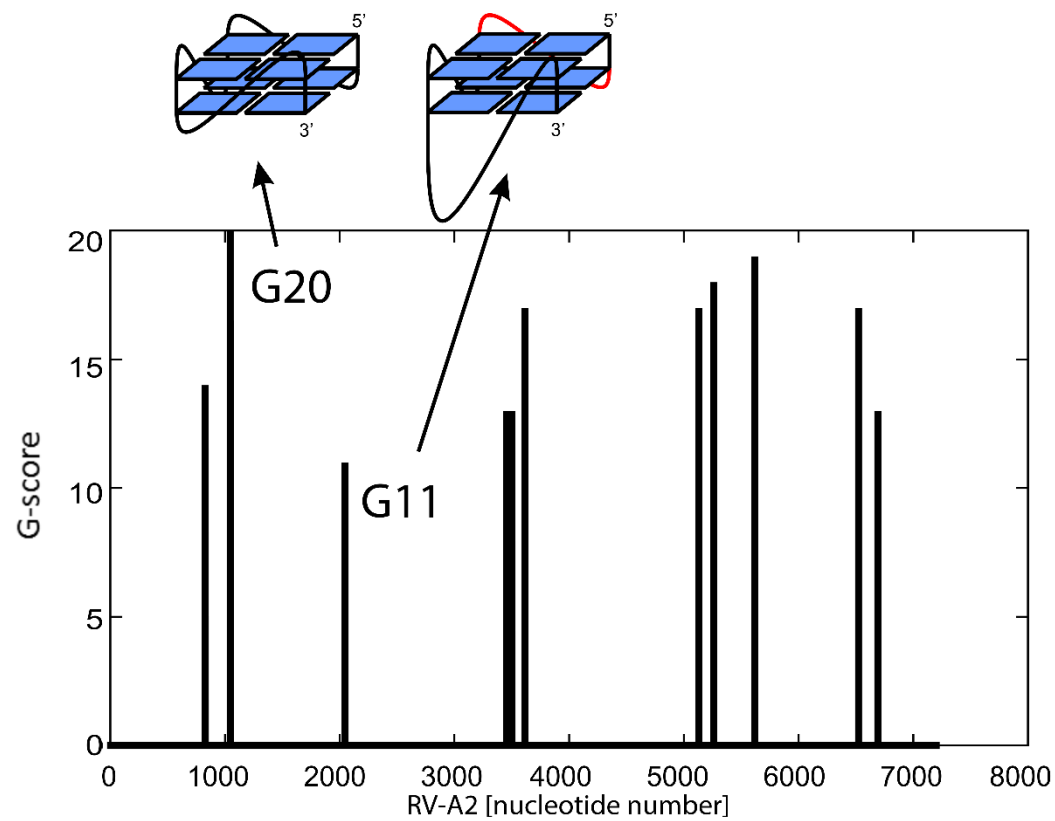
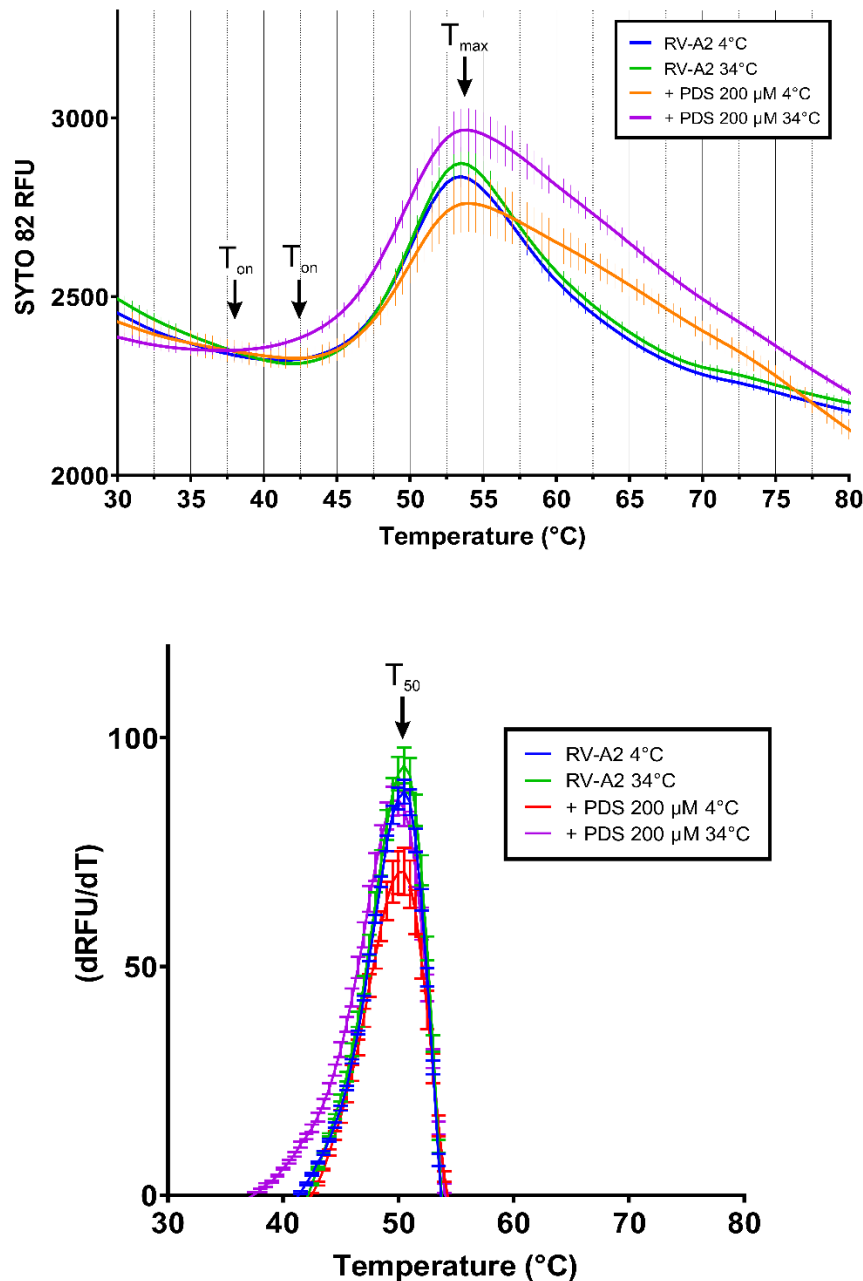


Supplementary Figure S1



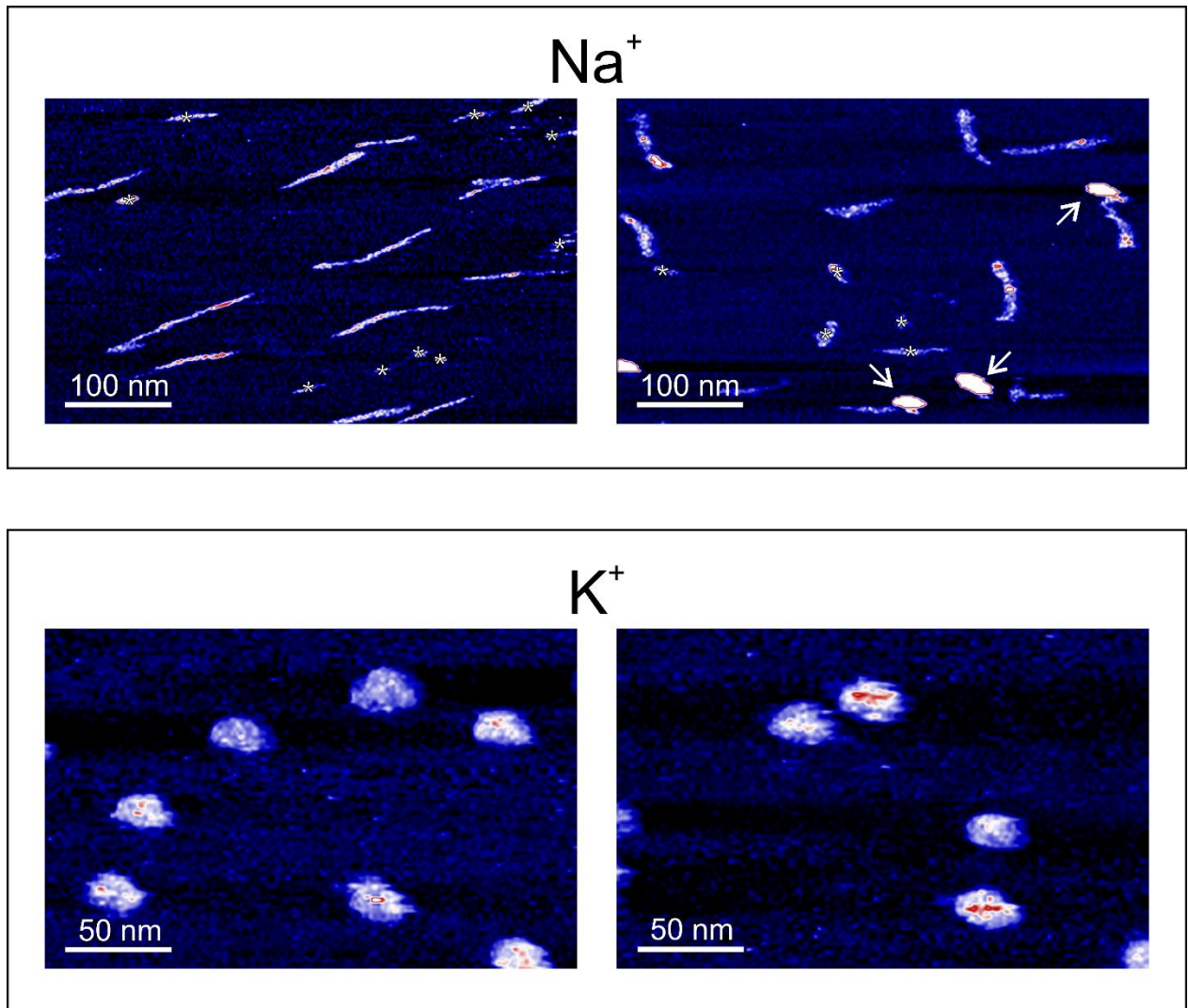
Supplementary Figure S1. QGRS-mapper analysis of RV-A2 RNA. Regions with G-scores ≥ 10 within non-overlapping windows of 30 nucleotides. Positions of the oligonucleotides G11 and G20 derived from the RV-A2 sequence are indicated. Top, cartoons of putative folds of G11 and G20 GQs. Note the long loop and putative zero-loops (red) in G11.

Supplementary Figure S2



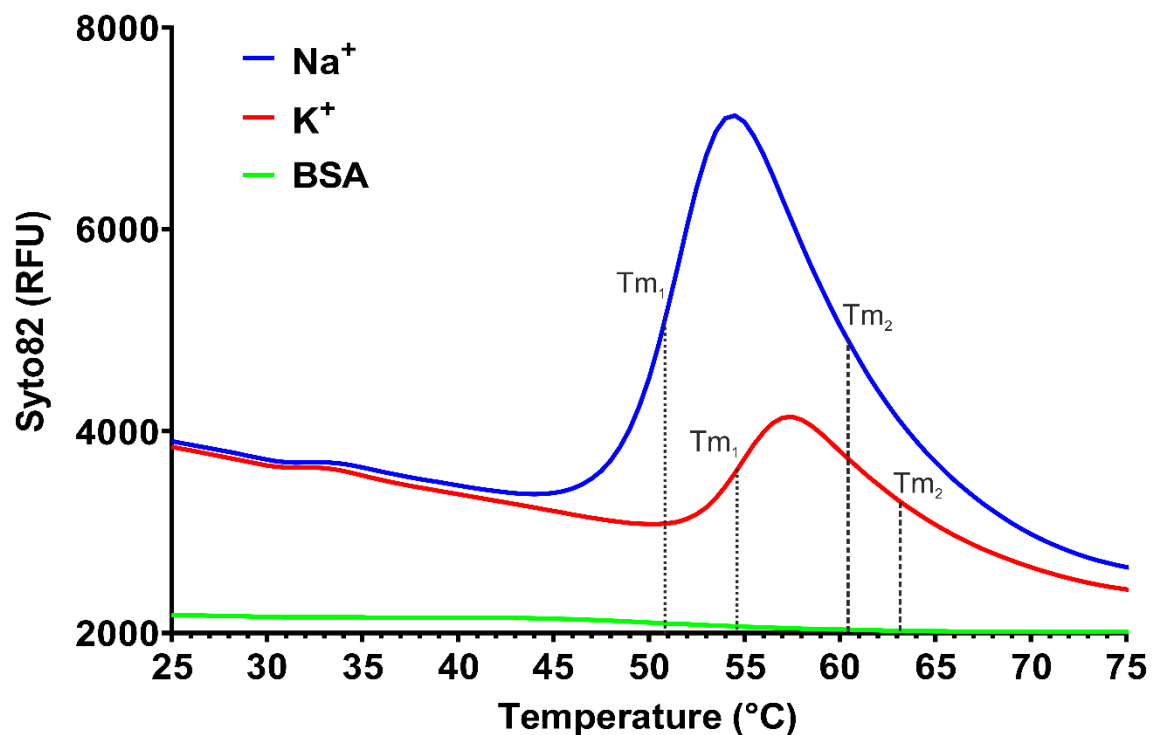
Supplementary Figure S2. PaSTRy analysis of purified RV-A2 preincubated with 200 μM PDS. For the mean values of temperature-dependent RNA accessibility see Fig. 3A. Purified virus was heated in a real-time PCR machine from 25 to 95 °C at 1.5 °C/min ramp rate in the presence of Syto 82. Samples were excited at 541 nm and the emission intensity was measured at 560 nm every other 0.5 °C temperature increase. The relative fluorescence units are plotted against the temperature.

Supplementary Figure S3



Supplementary Figure S3. AFM imaging of RNA cores in the presence of PDS in Na^+ or K^+ phosphate buffer. RV-A2 RNA cores were incubated with PDS at a final concentration of 20 μM in 100 mM Na^+ or K^+ phosphate buffer as indicated for 10 min at 25 $^{\circ}\text{C}$, applied to freshly cleaved mica and imaged. Asterisks indicate partially unwound RNA. Arrows point to RNA aggregates.

Supplementary Figure S4



Supplementary Figure S4. Analysis of the stability of RV-A2 RNA cores in Na⁺ or K⁺ phosphate buffers. RNA cores left after mild proteolysis of RV-A2 capsids with proteinase K were heated in 100 mM Na⁺ or K⁺ phosphate buffer containing 5 μ M Syto 82 in a real-time PCR machine from 25 to 95 °C at a 1.5° C/min ramp rate. Samples were excited at 541 nm, and the emission intensity was measured at 560 nm at each 0.5 °C temperature increase. Relative fluorescence units are plotted against the temperature. A sample containing BSA instead of RNA cores and treated similarly was used as a control to detect any possible interference of contaminant proteins with the Syto 82 signal.